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ASSET MANAGEMENT SYSTEM AND ASSET MANAGEMENT METHOD

Abstract:

In a programme preparation and distribution system (100), metadata indicating the variable information is generated from project to project, from medium to medium, from scene to scene or from frame to frame, to realize an asset management by controlling an archive system (40) depending on metadata. A database is constructed in which the archive system (40) manages metadata in a concentrated fashion along with the essence such as video and audio data. By a distributed programme editing system (10), the metadata inputted at the planning processing and at the casting processing is registered in the database managed in a concentrated fashion by an archival manager (40A) of the archive system (40), at the same time as a tag specifying the registered metadata is issued. This tag is co-packed with the video and audio information obtained on acquisition by an acquisition syst

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(54) **ASSET MANAGEMENT SYSTEM AND ASSET MANAGEMENT METHOD**

(57) In a programme preparation and distribution system (100), metadata indicating the variable information is generated from project to project, from medium to medium, from scene to scene or from frame to frame, to realize an asset management by controlling an archive system (40) depending on metadata. A database is constructed in which the archive system (40) manages metadata in a concentrated fashion along with the essence such as video and audio data. By a distributed programme editing system (10), the metadata inputted at the planning processing and at the casting processing is registered in the database managed in a concentrated

fashion by an archival manager (40A) of the archive system (40), at the same time as a tag specifying the registered metadata is issued. This tag is co-packed with the video and audio information obtained on acquisition by an acquisition system. In a production system (20), the timing to flow the staff roll is specified during the off-line processing in the production system (20). In accordance with the specified timing, the metadata is taken out from the database pointed by the tag co-packed with the video information or the audio information to generate the corresponding character automatically to effect complete editing processing.

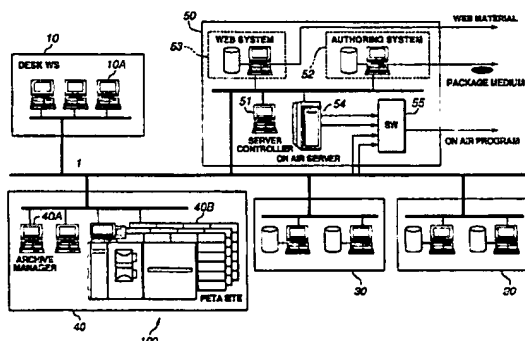


FIG.1

Description

Technical Field

[0001] This invention relates to a system and a method for asset management for managing an essence. Also, this invention relates to a production system and a production method for creating a project from an essence. Also, this invention relates to an archiving system and an archiving method for archiving an essence. Also, this invention relates to a distribution system and a distribution method for allotting an essence. Also, this invention relates to an authoring system and an authoring method for creating a package medium from an essence. Also, this invention relates to a production system and a production method for creating a programme from an essence. Further, this invention relates to a production system for creating an essence and a control method thereof.

Background Art

[0002] Recently, standardization on metadata is going on in SMPTE (Society of Motion Picture and Television Engineers) and the semantics for an essence specifying the contents or a wrapper meaning metadata and the essence combined together have been defined. Moreover, proposals have been made for the KLV (key length value) protocol or the UMID (unique material identifier) as a data structure of metadata and for a metadata dictionary as a collection of specified metadata per se, and the corresponding standardization is also proceeding.

[0003] Meanwhile, in a broadcasting station, shortage in programme software is posing a problem due to advent of multiple channels and multi-media, so that it is becoming crucial how the programme software is procured to improve the services as the cost is minimized and as the programme quality, that is the quality of the contents, is maintained. This is tantamount to how video/audio data can be processed efficiently in the sequence of the processing operations from acquisition and preparation until editing, transmission and archiving, such that medium asset management including a structure of an archiving system for re-utilization of past programmes is an incumbent task.

Disclosure of the Invention

[0004] It is therefore an object of the present invention to provide an asset management system and an asset management method for managing the essence so that a sequence of operations from acquisition and formulation until editing, transmission and archiving will be managed efficiently.

[0005] It is another object of the present invention to provide a production system and a production method which can create a project from an essence efficiently.

[0006] It is another object of the present invention to provide an archiving system and an archiving method which can archive an essence efficiently.

[0007] It is another object of the present invention to provide a distribution system and a distribution method which can allot the essence efficiently.

[0008] It is another object of the present invention to provide an authoring system and an authoring method which can create a package medium efficiently from an essence.

[0009] It is another object of the present invention to provide an asset management system and an asset management method which can manage an essence efficiently.

[0010] It is a further object of the present invention to provide a production system for creating an essence efficiently and a control method thereof.

[0011] In its one aspect, the present invention provides an asset management system for managing an essence, including means for creating the essence and for generating metadata for explaining the essence when creating the essence, means for archiving the essence and the metadata correlatively with each other, and means for controlling an operation performed on the archived essence based on the metadata to realize asset management for the essence.

[0012] In another aspect, the present invention provides an asset management system for managing an essence, including means for generating the information for explaining the essence, means for recording and/or reproducing the essence and the information correlatively with each other, and means for managing and/or controlling a recording and/or reproducing operation of the essence based on the information to effect asset management for the essence.

[0013] In another aspect, the present invention provides an asset management system for managing an essence, including means generating the information specifying attributes of the essence, recording the essence and the information correlatively with each other on a recording medium to reproduce the essence from the recording medium and control means for controlling the recording and/or reproducing operations for the essence based on the information to effect asset management for the essence.

[0014] In another aspect, the present invention provides an asset management method for managing an essence, including creating the essence and for generating metadata for explaining the essence when creating the essence, correlating the essence and the metadata with each other, and controlling an operation performed on the archived essence based on the metadata to realize asset management for the essence.

[0015] In another aspect, the present invention provides an asset management method for managing an essence, including generating the information for explaining the essence and controlling the recording and/or reproducing operation of recording and/or reproducing

ing the essence and the information correlatively with each other based on the information to effect asset management for the essence.

[0016] In another aspect, the present invention provides an asset management method for managing an essence, including generating the information specifying attributes of the essence, recording the essence and the information correlatively with each other on a recording medium and controlling the recording and/or reproducing operations for the essence based on the information to effect asset management for the essence.

[0017] In its one aspect, the present invention provides a production system for creating a project from an essence; production for creating the essence and for generating metadata for accounting for the essence; and post-production of creating the project from the essence using metadata generated at the time of the production.

[0018] In another aspect, the present invention provides a production system for creating a project from an essence; production for creating the essence and for generating metadata for accounting for the essence; and post-production of creating the project from the essence; wherein an operation of the post-production is controlled based on metadata generated at the time of the production.

[0019] In another aspect, the present invention provides a production method for creating a project from an essence; creating the essence and generating metadata used for accounting for the essence; and creating the project from the essence using the metadata.

[0020] In another aspect, the present invention provides a production method for creating a project from an essence; creating the essence and generating metadata used for accounting for the essence; and controlling an operation of post-production based on the metadata to create the project from the essence.

[0021] In its one aspect, the present invention provides a production system for creating a project from an essence; comprising: pre-production for creating metadata used for accounting for the essence; production for performing an operation for creating the essence, using the metadata; and post-production for creating the project from the essence.

[0022] In another aspect, the present invention provides a production system for creating a project from an essence, comprising: a pre-production for creating metadata used for accounting for the essence; a production for creating the essence and for storing the essence and the metadata correlatively with each other on a recording medium; and a post-production for creating the project from the essence; wherein an operation in the production is performed using the metadata generated at the time of the pre-production.

[0023] In its one aspect, the present invention provides an archiving system for archiving an essence, comprising: production for creating the essence and for generating metadata used for accounting the essence;

archiving means for archiving the essence and the metadata correlatively with each other; and means for controlling the archiving means so that an operation for the essence will be performed using the metadata.

[0024] In another aspect, the present invention provides an archiving system for archiving an essence, comprising: production for creating the essence and for generating metadata used for accounting the essence; archiving means for archiving the essence and the metadata correlatively with each other; and controlling means for controlling the archiving means so that asset management for the essence archived by the archiving means will be performed based on the metadata.

[0025] In another aspect, the present invention provides a method for archiving an essence, comprising: creating the essence and generating metadata used for accounting the essence; performing an operation for the essence using the metadata; and archiving and essence and the metadata correlatively with each other.

[0026] In another aspect, the present invention provides a method for archiving an essence, comprising: creating the essence and generating metadata pertinent to the essence; and performing control based on the metadata so that an asset management for the essence archived will be performed to archive the essence and the metadata correlatively with each other.

[0027] In its one aspect, the present invention provides a distribution system for allotting an essence, comprising: a production for creating the essence and for generating metadata pertinent to the essence; a post-production for performing postproduction processing on the essence; and distribution means for allotting the essence using metadata generated at the time of the production.

[0028] In another aspect, the present invention provides a distribution system for allotting an essence, comprising: a production for creating the essence and for generating metadata pertinent to the essence; a post-production for performing post-production processing on the essence; and distribution means for allotting the essence; wherein an operation of the distribution means is controlled using the metadata used at the time of the production.

[0029] In another aspect, the present invention provides a distribution method for allotting an essence, comprising: creating the essence and generating metadata pertinent to the essence; performing post-production processing on the essence; and allotting the essence using metadata generated at the time of the production.

[0030] In another aspect, the present invention provides a distribution method for allotting an essence, comprising: creating the essence and generating metadata pertinent to the essence; performing post-production processing on the essence; and controlling an operation of distribution, using the data, to allot the essence.

[0031] In its one aspect, the present invention pro-

vides an authoring system for creating a package medium from an essence, comprising: a production for creating the essence and for generating metadata pertinent to the essence; a post-production for performing post-production on the essence; and authoring means for creating the package medium from an essence processed with post-production, using metadata generated at the time of the production.

[0032] In another aspect, the present invention provides an authoring method for creating a package medium from an essence, comprising: creating the essence and generating metadata pertinent to the essence; performing post-production on the essence; and creating the package medium from an essence processed with post-production using metadata.

[0033] In another aspect, the present invention provides an authoring method for creating a package medium from an essence, comprising: generating metadata pertinent to the essence; creating the essence; performing post-production on the essence; and creating the package medium from an essence processed with post-production using the metadata.

[0034] In its one aspect, the present invention provides an asset management system for managing an essence, comprising: a pre-production for generating metadata indicating the rights of the essence and; a production for creating the essence; asset management means for performing asset management processing on the essence; and means for controlling the asset management means so that a circulation operation of the essence will be performed based on the metadata.

[0035] In another aspect, the present invention provides an asset management system for managing an essence, comprising: means for creating the essence and for generating metadata specifying rights pertinent to the essence; asset management means for performing asset management processing on the essence; and means for controlling the asset management means, based on the metadata, so that a circulating operation of the essence will be performed based on the metadata.

[0036] In another aspect, the present invention provides an asset management method for managing an essence, comprising: generating metadata indicating the rights of the essence; creating the essence; and performing control based on the metadata so that a circulating operation of the essence will be performed to effect asset management processing on the essence.

[0037] In another aspect, the present invention provides an asset management method for managing an essence, comprising: creating the essence and for generating metadata specifying rights pertinent to the essence; and performing control based on the metadata so that a circulation operation of the essence will be performed to effect asset management processing for the essence.

[0038] In its one aspect, the present invention provides a production system for creating a programme

from an essence, comprising: a production for creating the essence and for generating UMID (unique material identifier) for discriminating the essence; a post-production for editing the essence for generating the programme; and means for controlling an operation in the post-production based on the UMID.

[0039] In another aspect, the present invention provides a production method for creating a programme from an essence, comprising: creating the essence and for generating UMID (unique material identifier) for discriminating the essence; and controlling an operation in the post-production based on the UMID to edit the essence to generate the programme.

[0040] In its one aspect, the present invention provides a production system for creating an essence, comprising: means for generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels; means for receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata; and means for controlling the processing relevant to the essence based on the extracted metadata.

[0041] In another aspect, the present invention provides a control method of a production system for creating an essence, comprising: generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels; receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata; and controlling the processing relevant to the essence based on the extracted metadata.

Brief Description of the Invention

[0042] Fig.1 shows a system structure showing the structure of a programme creation and distribution system embodying the present invention.

[0043] Fig.2 shows a system structure showing the structure of a production system in the programme creation and distribution system.

[0044] Figs.3A and 3B schematically show a data structure of the SDI format.

[0045] Figs.4A and 4B schematically show a data structure of the SDTI format.

[0046] Fig.5 schematically shows a data structure of the SDTI-CP format.

[0047] Fig.6 schematically shows a data structure of the KLV format.

[0048] Fig.7 schematically shows a data structure of UMID.

[0049] Fig.8 shows contents of a metadata dictionary which is a dictionary rule taking a universal label standardized in the SMPTE298M into keys.

[0050] Fig.9 shows the contents of a metadata dictionary.

[0051] Fig.10 shows the contents of a metadata dictionary.
 [0052] Fig.11 shows the contents of a metadata dictionary.
 [0053] Fig.12 shows the contents of a metadata dictionary.
 [0054] Fig.13 shows the contents of a metadata dictionary.
 [0055] Fig.14 shows the contents of a metadata dictionary.
 [0056] Fig.15 shows the contents of a metadata dictionary.
 [0057] Fig.16 shows the contents of a metadata dictionary.
 [0058] Fig.17 shows the contents of a metadata dictionary.
 [0059] Fig.18 shows the contents of a metadata dictionary.
 [0060] Fig.19 shows the contents of a metadata dictionary.
 [0061] Fig.20 shows the contents of a metadata dictionary.
 [0062] Fig.21 shows the contents of a metadata dictionary.
 [0063] Fig.22 shows the contents of a metadata dictionary.
 [0064] Fig.23 shows the contents of a metadata dictionary.
 [0065] Fig.24 shows the contents of a metadata dictionary.
 [0066] Fig.25 shows the contents of a metadata dictionary.
 [0067] Fig.26 shows the contents of a metadata dictionary.
 [0068] Fig.27 shows the contents of a metadata dictionary.
 [0069] Fig.28 shows the contents of a metadata dictionary.
 [0070] Fig.29 shows the contents of a metadata dictionary.
 [0071] Fig.30 shows the contents of a metadata dictionary.
 [0072] Fig.31 shows the contents of a metadata dictionary.
 [0073] Fig.32 shows the contents of a metadata dictionary.
 [0074] Fig.33 shows the contents of a metadata dictionary.
 [0075] Fig.34 shows the contents of a metadata dictionary.
 [0076] Fig.35 shows the contents of a metadata dictionary.
 [0077] Fig.36 shows the contents of a metadata dictionary.
 [0078] Fig.37 shows the contents of a metadata dictionary.
 [0079] Fig.38 schematically shows the structure of an asset management system along with the processing

sequence of the programme creation and distribution operation in the programme preparation and distribution system.

[0080] Fig.39 is a flowchart for illustrating the programme preparation distribution operation in the programme preparation and distribution system.

Best Mode for Carrying Out the Invention

[0081] Referring to the drawings, preferred embodiment of the present invention are explained in detail.

[0082] The present invention is applied to a programme preparation and distribution system 100 configured as shown for example in Fig.1.

[0083] This programme preparation and distribution system 100 includes a distributed, programme editing system 10, connected over a gigabit Ethernet 1, a production system 20, a news system 30, an archive system 40, a programme distribution system 50 and an acquisition system 60 for acquiring the video or audio to be furnished to the production system 20.

[0084] The programme preparation and distribution system 100 is a system for so-called pre-production processing prior to shooting in which a producer or a director and the staff members consult as to the programme distribution contents. The persons concerned in preparing a programme are adapted to consult on the programme distribution contents through plural workstations connected to the gigabit Ethernet 1.

[0085] The production system 20 is a system for shooting and programme preparation by image or speech collection and includes a recording management system 21 in which recording staff members input necessary items, a production management system 22, an ingest system 23 for storing the video or audio acquired by the acquisition system 60, a coding system 24 for coding processing of the speech or the audio, an editing/processing system 25 for editing the speech or the audio, and a CG creation system 26 for displaying an image in superposition by computer graphics (CG) to create a weather map or letters, as shown for example in Fig.2.

[0086] The recording management system 21 is made up of plural workstations 21A, connected to the gigabit Ethernet 1, and is adapted to permit a news writer to enter an article through the workstations 21A. The production management system 22 is made up e.g., of a device controller 22A and an A/V server 22B, connected to the gigabit Ethernet 1. The ingest system 23 is made up of a reproducing device 23A for reproducing the video or audio recorded on a video tape, a telecine device 23B for converting an image imaged on a film into video signals, and a plurality of ingest clients 23C connected to the gigabit Ethernet 1, and is configured for storing the video or the audio acquired by the acquisition system 60 through the reproducing device 23A and the telecine device 23B on the ingest clients 23C. The coding system 24 is made up of a coding controller 24A, an

MPEG encoder 24B and an MPEG decoder 24C, connected to the gigabit Ethernet 1. The editing/ processing system 25 is made up of an off-line editing device 25A, an on-line editing device 25B, a video processing device 25C and an audio processing device 25D.

[0087] The news system 30 is a system for collectively managing the news information and manages on-air items and materials, that is manages which material is undergoing which stage of processing.

[0088] The archive system 40 is a system preserving video and audio data, and includes an archive manager 40A and a petasite 40B, connected to the gigabit Ethernet 1. In the petasite 40B are preserved essence and metadata.

[0089] The programme distribution system 50 includes a server controller 51, an authoring system 52, a web system 53 and an on-air server 54, connected to the gigabit Ethernet 1. The programme distribution system 50 also includes a routing switch 55 for selecting the on-air programme.

[0090] The acquisition system 60 is made up of a video camera 61, a relaying car 62 etc.

[0091] This programme preparation and distribution system 100 is a picture processing system in which a broadcasting station, a video producing firm etc has the functions of recording the video or the audio, referred to below as material, editing and processing these materials to prepare a picture for distribution, and of preserving the pictures. In the picture processing steps, such as recording, editing or preserving the materials, the supplementary information for discriminating the materials in detail is inputted to the recording medium or a dedicated recording server in the picture processing steps, such as recording, editing or preserving the materials.

[0092] As the supplementary information, metadata is used. The metadata denotes data for stating the necessary information for discriminating the materials obtained on recording, such as recording time, recording ID, recording title, or the name of a photographer or a reporter.

[0093] In the present programme preparation and distribution system 100, the transmission format used in transmitting video or audio data or the metadata is the SDI (Serial Digital Interface) as a digital transmission format standardized by SMPTE. Fig.3A shows the structure of the entire SDI format data.

[0094] The SDI format includes a 4-dot EAV (End of Video) area, indicating the end of synchronization, a 268-dot AND (ancillary) area, a 4-dot SAV (start of video) area, indicating start synchronization, and a 140-dot active video area, and is made up of 525 lines. The numerals entered in parentheses indicate the values defined in accordance with the PAL (phase alternation line) system.

[0095] The active video area includes a 9-line vertical blanking portion (VBK₁), a 10-line optional blanking portion (OBK₁), a 244-line active video portion (ACV₁), a

9-line vertical blanking portion (VBK₂), a 10-line optional blanking portion (OBK₂) and a 243-line active video area (ACV₂).

[0096] The SDI is a format for transmitting the non-compression digital data, such as D1 or D2 format, in which audio data is stored in an ancillary area and video data such as D1 or D2 is stored in the active video area. In the SDI format, metadata are transmitted by being inserted into the ancillary area.

[0097] Fig.3B shows one line of the SDI format. In transmission, data with 10 bits per line is transmitted on parallel/serial conversion and transmission path encoding.

[0098] As the transmission format for transmitting video, audio and metadata in the picture processing system, there are an SDTI (Serial Digital Transfer Interface) format for transmitting the data compressed by the MPEG system or the DV system, or the SDTI-CP (Serial Digital Transfer Interface - Content Package) format, which is further limited from SDTI format, may be used in addition to the above-described SDI format.

[0099] Fig.4A shows a data structure of the SDTI format. Similarly to the SDI format, the SDTI format has a 4-dot EAV (end of video) area, indicating the end synchronization, a 268-dot ANC (ancillary) area and a 4-dot SAV (Start of Video) area, indicating the start synchronization. However, in the SDI format, the active video area, constituted by 525 lines in the SDI format, is defined to be the payload area. It is noted that numerals in parentheses indicate values defined by the PAL (phase alternation line) system.

[0100] In the SDTI format, the payload area has blank data portions (BDT₁, BDT₂) and data portions (DT₁, DT₂). However, the number of lines in each data portion is not defined.

[0101] Fig.4B shows a line of the SDTI format. When data is transmitted by the SDTI format, data of 10 bit width per line is transmitted on parallel/serial conversion and transmission path encoding.

[0102] In the SDTI format, 53-word SDTI header data, in which to insert the transmission source address, destination address and the line number. CRC etc, is contained in the ancillary area. In the SDTI format, the metadata is inserted into an area of the ancillary area excluding the SDTI header data.

[0103] Fig.5 shows a data area of the SDTI-CP format data structure. The packet structure in the SDTI-CP is further limitation of the SDTI format and modifies the payload structure to facilitate insertion of variable data.

[0104] The data transmitted by the SDTI-CP format includes not only MPEG (Moving Picture Experts Group) 2 video elementary stream, but a variety of data, such as supplementary data, including audio data or metadata, which may be transmitted collectively with the MPEG2 Video Elementary Stream.

[0105] The data inserted into the payload is partitioned by "items", while the variable data is included in each item. Specifically, there are four sorts of items,

namely a System Item, a Picture Item, an Audio Item and an Auxiliary Item.

[0106] The System Item has areas such as System Item Bitmap, Content Package rate, SMPTE Universal Label, Package Metadata Set, Picture Metadata Set, Audio Metadata Set and Auxiliary Metadata Set.

[0107] In the SDTI-CP format, metadata is inserted into Package Metadata Set, Picture Metadata Set, Audio Metadata Set and Auxiliary Metadata Set for transmission.

[0108] The metadata is the inherent data added and inputted to discriminate materials such as video and audio data, and is transmitted in accordance with the KLV (Key Length Value) consistent with the SMPTE standard and also in accordance with the UMID (Unique Material Identifier) data format.

[0109] The KLV format is the data transmitting format having three areas, namely a 16-byte Universal Label Data Key stating the Universal Label Data, a Value Length indicating the data length of metadata stored in the Value area and a Value in which to store the actual metadata corresponding to the SMPTE Dictionary. Fig. 6 shows the KLV format.

[0110] The Universal Label Data Key is a data area for applying unique labelling to stored metadata. The Universal Label Data Key is further divided into a UL (Universal Label) Header area, including a 1-byte Object ID, and a 1-byte UL (Universal Label) Size, a UL (Universal Label) Designators area, including a UL (Universal Label) Code, SMPTB Design, Registry Design, Data Design and Reference Version, each being 1-byte, and a 9-byte Data Element Tag area.

[0111] The UMID is an identifier uniquely determined for discriminating video data, audio (speech) data and other material data. Fig. 7 shows a UMID data structure.

[0112] The UMID is made up of a Basic UMID as ID for discriminating material data made up of a sequence of pictures, speech and metadata, referred to below as contents, and Extended UMID as a signature for discriminating the respective contents in the material data.

[0113] The Basic UMID has a 32-byte data area, which is made up of a 12-byte Universal Label area, a 1-byte Length Value area, a 3-byte Instance Number area and a 16-byte material Number area.

[0114] The Universal Label area has codes for discriminating digital data stored therein, as standardized in detail in SMPTE-298M. The Length Value area denotes the length of UMID. Since the Basic UMID differs in code length from Extended UMID, the Basic UMID is denoted by 13h and the Extended UMID is denoted by 33h. The Instance Number area indicates whether or not the material data has been processed with overwrite processing or editing processing. The Material Number area has three areas, in which are stored codes for distinguishing material data.

[0115] The Time Snap, indicated by 4 bytes, denotes the number of snap clock samples per day. That is, it denotes the time of preparation of the material data in

terms of clocks as unit. The 8-byte Rnd (random number) is a random number which prevents duplex numbers from being affixed in case incorrect time is set or in case the network address of an equipment defined by IEEE (The Institute of Electrical and Electronics Engineers) is changed.

[0116] On the other hand, the Extended UMID is made up of 8-byte Time/Date Code for discriminating the time and the date of preparation of a material in question, 12-byte Spatial Co-ordinates, defining the correction concerning the time of preparation of the material (time difference information) or the position information represented by the latitude, longitude or altitude, 4-byte Alphanumeric Code (Country) defining the name of a nation 4 by abbreviated alphabetical letters or symbols, 4-byte Alphanumeric Code (Organization) defining a name of an organization, and 4-byte Alphanumeric Code (User) defining the name of a user who prepared a material.

[0117] It is noted that metadata indicating the picture size, generation number etc is not contained in the above-described Basic UMID or Extended UMID. In particular, the Material Number is not indicative of the other information concerning the status or the picture of a material. The metadata indicating the picture size or the generation number is transmitted based on the KLV format.

[0118] It is noted that, in a metadata dictionary, which is the dictionary provisions which have taken the universal label standardized in the SMPTE 298M into keys, the metadata having the following data elements are prescribed:

[0119] That is, there are prescribed, as names of data elements corresponding to the SMPTE label, class 11D and locators (IDENTIFIERS & LOCATORS), globally unique ID (Globally Unique Identifiers), UMID video (UMID Video), UMID audio (UMID Audio), UMID data (UMID Data), UMID system (UMID System), International Broadcasting Organization ID (International Broadcasting Organization Identifiers), organization division (Organization Identifiers), Programme ID (Programme Identifiers), UPID (UPID), UPN (UPN), media ID (Physical Media Identifier), tape ID (Tape Identifier), EBU ID NO (IBTN), ISO ID (ISO Identifiers), ISO audio visual NO (ISAN), ISO book NO (ISBN), ISO serial NO (ISSN), ISO musical work code (ISWC), ISO printed music NO (ISMN), ISO commercial ID (ISCI), ISO recording code (ISRC), ISO report NO (ISRN), ISO term synopsis (ISBD), ISO textual work code (ISTC), digital object ID (DOI), compound ID (Compound IDs), serial item and contribution ID (SICI), serial item and contribution ID (SICI), book item and component ID (SICI), audio visual item and component ID (AICI), distributor ID (PII), object ID (Object Identifiers) and Internet global unique ID (GUID), as shown with #1 to #33 in Fig. 8.

[0120] There are also prescribed, as names of data elements corresponding to the SMPTE label (GUID and SMPTE label identifiers), meta data object ID (MobID),

details of the object ID (Definition object identifiers), details of the object ID (DefinitionObject identifiers), container version indication (GenerationAUId), CNIR (CNRI Handles), device ID (Device identifiers), device designation (Device Designation), device preparation (Device Make), device model (Device Model), device serial NO (Device Serial Number), globally unique locators (Globally Unique Locators), unique resource ID (URL locators (and "Identifiers")), unique resource locators (URL), unicord URL string (URLString), continuation URL(PURL), resource name (URN), media locator (Media locators), local ID (Local Identifiers), administrative identifiers (Administrative identifiers), transmitting ID (Transmission identifiers) archive identifier (Archive Identifier), item ID (Item ID), accounting reference NO (Accounting Reference), Transmission Billing (Traffic), physical media ID (Physical Media identifiers), film code (Film codes), reel NO (Reel/Roll number), tape ID (tape number), object ID (Object identifiers) and locally unique ID (LUID), as shown with #34 to #66 in Fig.9.

[0121] There are also prescribed, as data element names corresponding to the SMPTE labels, slot ID (SlotID), object text ID (Object text identifiers), name of group (Mob_name), name of slot (SlotName), object name (DefinitionObject_Name), local locators (Local Locators), local media locator (Local Media locators), local file path (Local File Path), film locator (Film Locators), edge code (Edge Code), frame code (Frame Code), key code (Key Code), Ink No (Ink number), segment start code (EdgeCode_Start), proxy locator (Proxy locators); proxy key text (Key text), proxy key frame (Key Frame), proxy key sound (Key Sound), key data (Key data or programme), free writing (Free-form, human readable locator), free writing name (TextLocator_Name), title (Titles), title kind (Title kind), main title (Main Title), subtitle (Secondary title), series NO (Series number), episode. NO (Episode Number), scene number (Scene Number), take NO (Take Number), owner (Unique IPR identifiers), owner by CIS-AC (IPI (SUISA/CISAC)), natural person/legal entity (Natural Person/legal entity) and ID by AGICOA (AGICOA/MPAA), as shown with #67 to #99 in Fig.10.

[0122] There are also prescribed, as names of data elements associated with the SMPTE label, AGICOLA ID (AGICOLA/MPAA Identifier), class 2 administration (ADMINISTRATION), supplier (Supplier), source organization (Source Organization), contract NO (Supply contract number), original producer name (Original Producer Name), product (Product), the total number of episodes in a series (Total number of Episodes in a Series), rights (Rights), copyright (Copyright), copyright status (Copyright Status), copyright owner (Copyright Owner), intellectual rights (Intellectual Rights), intellectual rights type (IP type), details of IP rights (IP Rights), legal personalities (Legal personalities), owner (Rights Owner), rights management authority (Rights Management Authority), interested parties (Interested Parties), ancillary information to property rights (IP Rights options), maxi-

mum number of usages (Maximum Number of Usages), licence options (Licence options), financial information (Financial information), currency (Currency), payments and costing (Payments and costing), royalty information (Royalty Financial Information), profit information (Income), royalty financial information (Royalty Financial Information), access permission (Permitted Access), access level (Restrictions on Use), security (Security) and degree of technical access (System Access), as shown with #100 to #132 in Fig.11.

[0123] There are also prescribed, as names of data elements associated with the SMPTE label, a user name (Username), a user name (User Name), a password (Password), a password (Password), a motion picture film (Film), a scramble key kind (Scramble key kind), a scramble key value (Scramble key value), a publication outlet (Publication Outlet), a broadcast outlet information (Broadcast), broadcaster (Broadcaster), a name (Name), a channel (Channel), a transmission medium (Transmission Medium), a broadcast region (Broadcast Region), broadcast and repeat statistics (Broadcast and Repeat Statistics), a first broadcast flag (First Broadcast Flag), a repeat number (Repeat Number), a current repeat number (Current repeat number), a previous repeat number (Previous repeat number), a rating (Rating), an audience rating (Audience rating), an audience reach (Audience reach), other ratings (Other ratings), participating parties (Participating parties), representative persons (Persons (Groups and Individuals)), nature of person (Group of individuals) (Nature of Person (Group of individuals)), support and administration (Support and Administration), support and administration staffs (Support/Administration Status), organizations and public bodies (Organizations. or Public Bodies) and kinds of organizations and public bodies (Kind of Organizations or Public Bodies), as shown with #133 to #165 in Fig.12.

[0124] There are also prescribed, as names of data elements associated with the SMPTE label, a production (Production), a film labo (Contribution Status), support and administration (Support and Administration), a support and administration staff (Support and Administration Status), job function information (Job Function Information), a job function (Job Function), a role (Role/ Identity), contact information (Contact Information), contact kind (Contact kind), contact department (Contact Department), representative (Person or Organization Details), person name (Person name), a family name (Family name), a first given name (First Given name), a second given name (Second Given name), a third given name (Third Given name), a group name (Group name), a main name (Main name), a supplementary name (Supplementary name), an organization name (Organization name), a main name (Main name), a supplementary organization name (Supplementary organization name), a class 3 interpreter (INTERPRETATIVE), fundamental information (Fundamental), countries (Countries), an ISO 3166 country code (ISO

3166 Country Code System), an ISO 3166 country code (ISO 3166 Country Code System), an ISO language code (ISO language code), an ISO language code (ISO language code), interpretative parameters (Data Interpretations), OS characteristics (Operating system interpretations), a fundamental 4 definitions (Fundamental Dimensions) and length (Length), as shown with #166 to #198 in Fig.13.

[0125] There are also prescribed, as names of data elements associated with the SMPTE label, a length system (Length System), a length system (Length System), a length unit (Length Unit), a length unit (Length Unit), a time system (Time System), a time system (Time System), a time unit (Time Unit), a time unit (Time Unit), a mass (Mass), an energy (Energy), human assigned (Descriptive-Human Assigned), categorization (Categorization), content classification (Content Classification), a type (Type), a genre (Genre), target audience (Target Audience), cataloguing (Cataloguing and Indexing), catalogue history (Catalogue History), current status of metadata (Status of Data Set), current status of metadata (Status of Data Set), ID in use (Cataloguing, Indexing or Thesaurus system used), a theme (Theme), a genre (Genre), a sub-code (Subject Code), a keyword (Keywords), a key frame (Key Frame), key sounds (Key Sounds), key data (Key data), textural description (Textural Description), an abstract (Abstract), a purpose (Purpose) and description (Description), as shown with #199 to #231 in Fig.14.

[0126] There are also prescribed, as names of data elements associated with the SMPTE label, a color descriptor (Color descriptor), a format descriptor (Format descriptor), a stratum (Stratpm), a stratum kind (Stratum kind), supplementary information (Supplementary Information), assessments (Assessments), awards (Awards), individual (Individual), a programme (Programme), qualitative values (Qualitative Values), asset values (Asset Values), content value (Content Value), cultural quality (Cultural Quality), aesthetic value (Aesthetic Value), historic value (Historic Value), technical value (Technical Value), other values (Other Values), descriptors (Descriptors (Machine Assigned or Computed)), categorization (Categorization), content classification (Content Classification), cataloguing (Cataloguing and Indexing), catalogue history (Catalogue History), current status of metadata (Status of Data Set), cataloguing (Cataloguing and Indexing), a keyword (Keywords), a key frame (Key Frame), key sounds (Key Sounds), key data (Key data), textural description (Textural Description), a stratum (Stratum), a stratum kind (Stratum kind), a class 4 parameter (PARAMETRIC) and video encoding parameters (Video Essence Encoding Characteristics), as shown with #232 to #264 in Fig. 15.

[0127] There are also prescribed, as names of data elements associated with the SMPTE label, video fundamental characteristics (Video Fundamental Characteristics), a video source device (Video Source Device),

OE conversion system (Fundamental opto-electronic formulation), gamma characteristics (gamma information), gamma equation (Gamma Equation), gamma (Gamma), luminance equation (Luma Equation), colorimetry code (Colorimetry Code), scanning information (Fundamental sequencing and scanning), a component sequence (Signal Form Code), color frame index (Color Field Code), a vertical rate (Vertical Rate), a frame rate (Frame Rate), image dimensions (Image dimensions), number of lines (Image lines), a total number of lines per frame (Total Lines per frame), active lines/frame (Active Lines per frame), leading lines (Leading Lines), trailing lines (Trailing Lines), horizontal and vertical dimensions (Horizontal and Vertical dimensions), an aspect ratio (Display Aspect Ratio), an image aspect ratio (Image Aspect Ratio), a capture aspect ratio (Capture aspect ratio), a stored height (Stored Height), a stored width (StoredWidth), a sampled height (Sampled Height), a sampled width (Sampled Width), a sampled X offset (Sampled X Offset), a sampled Y offset (Sampled Y Offset), a display height (Display Height), a display width (Display Width), and a display X offset (Display X Offset), as shown with #265 to #297 in Fig.16.

[0128] There are also prescribed, as names of data elements associated with the SMPTE label, a display Y offset (Display Y Offset), video coding characteristics (Video Coding Characteristics), an analogue video system (Analogue Video System), a luminance sampling rate (Luminance Sample Rate), active samples per line (Active Samples per Line), total samples per line (Total Samples per Line), bits per pixel (Bits per Pixel), sampling information (Sampling Information), a sampling hierarchy code (Sampling Hierarchy Code), horizontal sampling ratio (Horizontal Subsampling), color siting (ColorSiting), a rounding method code (Rounding Method Code), a filtering code (Filtering Code), a sampling structure (Sampling Structure), sampling structure code (Sampling Structure Code), a frame layout (FrameLayout), line field information (VideoLineMap), alpha transparency (AlphaTransparency), a component width (ComponentWidth), black reference level (BlackReferencelevel), white reference level (WhiteReferencelevel), color dynamic range (ColorRange), a pixel layout (PixelLayout), a color palette (Palette), pallet layout (PalletLayout), number of same data in the horizontal direction of original signals (Is Uniform), number of stored neighboring bytes (Is Contiguous), JPEG table (JPEG Table ID), TIFF parameters (TIFFDescriptor_Summary), MPEG coding characteristics (MPEG coding characteristics), MPEG-2 coding characteristics (MPEG-2 coding characteristics), field frame type code (Field Frame Type Code) and film parameters (Film parameters), as shown with #298 to #330 in Fig. 17.

[0129] There are also prescribed, as names of data elements associated with the SMPTE label, a film to video parameters (Film to Video parameters), field dominance (Field Dominance), frame phase sequence

(Framephase sequence), film pulldown characteristics (Film Pulldown characteristics), a pulldown sequence (pulldown sequence), a pulldown phase (Pull down phase), a pulldown kind (Pulldown kind), a pulldown direction (Pulldown Direction), a pulldown phase (Phase Frame), a film frame rate (Film Frame Rate), 24.00 fps (Capture Film Frame Rate), 23.976 fps (Transfer Film Frame rate), special frame rate (FilmDescriptor_Framerate), film characteristics (Film characteristics), film aperture characteristics (Film capture aperture), film color process (Film Color Process), edge code format (Code-Format), header text (Header), video and film test parameters (Video and Film test parameters), video test parameters (Video test parameters), Test parameters (Test parameters), a test result (real number) (Test Result (real)), test result (integer) (Test Result (integer)), storage alignment (Video digital storage alignment), buffer size on frame storage (Image Alignment Factor), client fill start (Client Fill Start), client fill end (Client Fill End), padding bits (Padding Bits) and audio essence encoding characteristics (Audio Essence Encoding Characteristics), as shown with #331 to #363 in Fig.18.

[0130] There are also prescribed, as names of data elements associated with the SMPTE label, audio fundamental characteristics (Audio Fundamental Characteristics), audio source device (Audio Source Device), fundamental audio formulation (Fundamental audio formulation), audio channel division (Electro-spatial formulation), audio filtering characteristics (Filtering applied), audio reference level (Audio reference level), number of audio channels in mix (Number of audio channels in mix), number of mono channels (Mono channels), number of stereo channels (Stereo channels), number of tracks (Physical Track number), a film sound source (Film sound source), optical track (Optical track), magnetic track (Magnetic track), analogue audio coding characteristics (Analogue Audio Coding Characteristics), an analogue system (Analogue system), audio sampling characteristics (Digital Audio Sampling Characteristics), sample rate (Sample rate), clock frequency (Reference clock frequency), bits per sample (Bits per sample), a rounding law (Rounding law), dither (Dither), audio coding characteristics (Digital Audio Coding Characteristics), a coding law (Coding law), number of layers (Layer number), an average bit rate (Average Bit rate), a fixed bitrate (Fixed bitrate), audio test parameters (Audio test parameters), SNR (Signal to noise ratio), weighting (Weighting), audio summary information (Audio summary information), AIFC format summary (AIFCDescriptor_Summary), WAVE format summary (WAVEDescriptor_Summary) and an encoding method (Data. Essence Encoding Characteristics), as shown with #364 to #396 in Fig.19.

[0131] There are also prescribed, as names of data elements associated with the SMPTE label, fundamental characteristics (Data Essence Fundamental Characteristics), information of original source signals (Analogue Data Essence Coding Characteristics), analogue

data coding (Analogue Data Coding), digital coding characteristics (Digital Data Coding Characteristics), original recording data (Data test parameters), metadata encoding characteristics (Metadata Encoding Characteristics), metadata fundamental characteristics (metadata fundamental characteristics), time code characteristics (Timecode Characteristics), time code kind ((Timecode kind), time code kind ((Timecode kind), a drop frame (Drop), LTC/VITC (Source Type), time code time base (Timecode Timebase), frames/sec (FPS), user bit ON/OFF (Timecode User bit flag), start address (Start), time code sampling rate (TimecodeStream_Sample Rate), time code data itself (Source), time code with sync signal (IncludeSync), analogue metadata information (Analogue Metadata Coding Characteristics), an analogue metadata carrier (Analogue Metadata Carrier), digital metadata information (Digital Metadata Coding Characteristics), digital metadata carrier (Digital Metadata Carrier), metadata test characteristics (Metadata test parameters), system and control Encoding characteristics (System & Control Encoding Characteristics), system and control fundamental characteristics (System & Control Fundamental Characteristics), original analogue signal information (Analogue System & Control Coding Characteristics), analogue system (Analogue System & Control Coding), original digital signal information (Digital System Coding Characteristics), digital metadata information (Digital System Metadata Sampling Characteristics), original signal metadata characteristics (System. Metadata test parameters) and general encoding characteristics (general encoding characteristics), as shown with #397 to #429 in Fig.20.

[0132] There are also prescribed, as names of data elements associated with the SMPTE label, general essence encoding characteristics (General Essence Encoding Characteristics), a sampling rate (Samplerate), a length (Length), container encoding characteristics (Container encoding characteristics), byte sequence (ByteOrder), storage medium parameters (Storage Medium parameters), a tape cartridge format (Tape cartridge format), video tape gauge (Videotape gauge and format), tape size (FormFactor), a signal form (VideoSignal), a tape format (TapeFormat), recording length (Length), tape manufacturer (TapeDescriptor_ManufacturerID), a tape model (Model), disc recorder parameters (Disc recorder parameters), disc kind (Disc kind and format), film medium parameters (Film Medium Parameters), film stock manufacturers (Film stock manufacturers), a film stock type (Film Stock type), perforation information (PerforationPerFrame), a film kind (FilmKind), a film format (FilmFormat), a film aspect ratio (FilmAspectRatio), manufacturer (Manufacturer), a model (Model), a film gauge (Film gauge and format), (Object Characteristics (Placeholder)), device characteristics (Device Characteristics), camera characteristics (Camera Characteristics), optical characteristics (Optical Characteristics), focal length (Focal length), a

CCD size (Sensor Size), and a lens aperture (Lens Aperture), as shown with #430 to #462 in Fig.21.

[0133] There are also prescribed, as names of data elements associated with the SMPTE label, a CCD size of original signals (Sensor Type Code), a field of view (Field of View), special lens (Anamorphic lens characteristics), optical test parameters (Optical Test Parameters), sensor characteristics (Optical sensor characteristics), flare characteristics (Flare), microphone characteristics (microphone Characteristics), a sensor type (Sensor type), polar characteristics (Polar characteristics), image characteristics (Image Characteristics), an image category (Image Category), class 5 creation process (PROCESS), process status flag (Process Indicators), fundamental information (Fundamental), shot, clip, segment indication (Integration Indication), a quality flag (Quality Flag), physical instance category (Physical Instance Category), capture (Capture), digital or analogue origination (Digital or analogue origination), microphone position (Microphone Placement techniques), dubbing information (Manipulation), number of times of change (Simple Flagging), copy numbers (Copy Number), a clone number (Clone Number), work in progress flag (Work in Progress Flag), analogue digital mixing (Digital or analogue mix), payload compression hysteresis (Downstream Processing History), a video compression history (Video Compression History), a video compression algorithm (Video Compression Algorithm), compression hysteresis data set (MPEG2 dynamic coding historical dataset), a noise reduction algorithm (Video Noise Reduction Algorithm), and compression (Compression), as shown with #463 to #495 in Fig. 22.

[0134] There are also prescribed, as names of data elements associated with the SMPTE label, audio compression history (Audio Compression History), audio compression algorithm (Audio Compression Algorithm), audio compression history data (MPEG-2 Audio Dynamic coding history), a noise reduction algorithm (Audio Noise Reduction Algorithm), a data compression history (Data Compression History), metadata compression history (Metadata Compression History), MPEG process (MPEG processing), splicing metadata (Splicing Metadata), correction of the essence (Enhancement of Modification), correction of video signals (Video processing), description of correction (Enhancement of Modification Description), device designation (Video processor settings (Device-specific)), device kind (Device kind), device parameters (Device parameters), device parameter setting (Device parameter setting), audio processing (Audio processing), description of correction (Enhancement of Modification Description), audio processor settings (Device-specific), a device kind (Device kind), device parameters (Device parameters), device parameter setting (Device parameter setting), correction of data (Data processing), description of correction (Enhancement of Modification Description), data processor settings (Data processor set-

tings (Device-specific)), a device kind (Device kind), device parameters (Device parameters), device parameter setting (Device parameter setting), editing information (Editing Information), editing version information (Editing version information), file format version (Version), editing details (Editing decisions), a file format version (Version), editing details (Editing decisions), contents of change (RelativeScope) and change slot (RelativeSlot), as shown with #495 to #528 in Fig.23.

[0135] There are also prescribed, as names of data elements associated with the SMPTE label, an original signal group (SourceMobSlotID), fade information default (DefFadeType), editing matte information (Editing matte information), editing event information (Editing event information), comment (Event_Comment), event ON/OFF information (ActiveState), edit effect information (Edit effect information), audio fade-in type (FadeInType), audio fade-out type (FadeOutType), control point (ControlPoint_Value), a constant value (ConstantValue_Value), hint 'Edithint), transient information (IsTimeWarp), category information (Category), input segment number (NumberInputs), bypass information (Bypass), editing web information (Editing web information), start (BeginAnchor), end (Endanchor), editing user notes (Editing user notes), tag information (TaggedValue_Name), value information (TaggedValue_Value), class 6 inter-data information (RELATIONAL), relation (Relationship), relation kind (Relatives), correlative values (Essence to Essence), a source material (source material), UMID (Source material UMID), a source material (source material), most recent edit text (Most Recent Edit text), and most recent edit UMID (Most recent edit UMID), as shown with #529 to #561 in Fig.24.

[0136] There are also prescribed, as names of data elements associated with the SMPTE label, metadata to essence (Metadata to Essence), metadata to metadata (Metadata to Metadata), object to object (Object to Object), metadata to object (Metadata to Object), relation to production materials (Related production material), programme support material (Programme support material), relation to advertising material (Programme advertising material), relation to CM (programme commercial material), numerical sequence (Numerical sequence), numerical sequence in sequence (Numerical sequence in sequence), offset information (Relative position in sequence (value)), preview, next information (Relative position in sequence (value)), preview, next information (Relative position in sequence (descriptive)), structural relationship (Relationship structures), relationship in contents (Containing relations), contents themselves (Contains one), a still frame (Still Frame), a hot spot matte (Hot Spot Matte), annotation (Annotation), translation (Rendering), pull-in (InputSegment), Selection (Selected), effect on transition (Operation Group), web addresses (Manufacturing Info), content group (Content), content description (Dictionary), essence description (Essence Description), segment description (Segment), contains set (contains set), param-

eters (Parameters), alternate segments (Alternates), group (Mobs), and essence data (Essence Data), as shown with #562 to #594 in Fig.25.

[0137] There are also prescribed, as names of data elements associated with the SMPTE label, properties (Properties), locators (Locators), class definition (class definitions), type definition (type definitions), operating definitions (Operation Definitions), parameter definitions (Parameter Definitions), data definitions (Data Definitions), plugin descriptors (Plugin Descriptors), codec descriptions (codec descriptions), container description (Container Definitions), interpreter description (Interpolator Definitions), comments (Comments), contains order set (Contains order set), different format specifications (Choices), input segments (Input Segments), nesting information (NestedScope_Slots), components (Components), locators (Locators), ID lists (Identification List), group slot (Mob_Slots), point values (PointList), contains stream of data (Contains stream of data), data (Data), ID (Sample Index), weak reference relation (Weak reference relation), weak reference to one object (Weak reference to one object), generation (Generation), data definition (Data Definition), operational definition (Operational Definition), source ID (SourceID), kind of effect (Control Point_Type), post-editing ID (Operation Definition_DataDefinition) and control type (Parameter Definition_Type), as shown with #595 to #627 in Fig.26. There are also prescribed, as names of data elements associated with the SMPTE label, property (Property Definition_Type), category (Category Class), file descriptors (FileDescriptor Class), group name (MobID), container format (Container Format), description on parameters (Definition), parameter types (Parameter_type), interpretation (Interpolation), data type (TaggedValue_Type), strong relevance of objects (Type Definition Strong Object Reference_Referenced Class), weak relevance of objects (Type Definition Weak Object Reference_Referenced Class), underline element type (Type Definition PixedArray_Element Type), variable array element type (Type Definition PixedArray_Element Type), fixed array element type (Type Definition VariableArray_Element Type), description on element type (Type Definition String_Element Type), a string element (Type Definition String_Element Type), a stream element (Type Definition Stream_Element Type), weak reference set (Set of weak references), plugin descriptors (Plugin Descriptors), parameters (ParametersDefined, data definitions (Data Definitions), an ordered set of weak references (Ordered set of weak references), degradation of properties (Degrade To), member types (Member Types), class relations (Class Relations), parent class (Parent class), parent class (Parent class), child class (Child class), instances of class (Instance of class), an object class (Object Class), and metadata object definitions (Metadata object definitions), as shown with #628 to #660 in Fig.27.

[0138] There are also prescribed, as names of data elements associated with the SMPTE label, property

(Property definition), hint (Is Searchable), essential/optional (Is Optional), default conditions (Default Value), local ID (local Identification), type definition (Type definition), size (Size), specified size (Is Signed), element name (TypeDefinitionEnumeration_Element Names), element name (Type Definition Enumeration_Element Values), number of arrays (Element Count), member names (Member Names), name of extension (Type Definition Extendible Enumeration_Element Names), name of extension (Type Definition Extendible Enumeration_Element Vales), instance description (Instance descriptions), description (Description), container definitions (Container definitions), essence labels (Essence Is Identified), code objects (Related Code Objects), plugin code objects (Relations to plugin code objects), name (Name), plug-n (Plugin Descriptor_Identification), description (Description), version number (Version Number), a version string (Version String), manufacturers (Manufacturer), manufacturer ID (Manufacturer ID), platforms (Platform), platform versions (Min Platform Version), platform OS versions (Max Platform Version), plugin engines (Engine), mini engine version (MinEngine Version) and max engine version (MaxEngine Version), as shown with #661 to #693 in Fig.28.

[0139] There are also prescribed, as names of data elements associated with the SMPTE label, API plugin (Plugin API), mini plugin of API (Mini Plugin API), max plugin API (Max Plugin API), software (Software Only), accelerator (Accelerator), authentication (Authentication), relation to application codes (Relation to application code objects), company name (Company Name), product name (Product Name), product number (Product ID), a product version (Product Version), product version string (Product Version String), a toolkit version (Toolkit Version), a platform (Platform), class 7 space time (SPATIO-TEMPORAL), position and space vectors (Position and Space Vectors), an image coordinate system (Image Coordinate System), map datum used (Map Datum Used), an absolute position (Absolute Position), local datum absolute position (Local Datum Absolute Position), local datum absolute position accuracy (Local Datum Absolute Position Accuracy (m)), a device code (device altitude (m)), a device code (device altitude (meters, concise)), device latitude (Device Latitude (degrees)), device latitude (Device Latitude (degrees, concise)), device longitude (Device Longitude (degrees)), device longitude (Device Longitude (degrees, concise)); device size (X) (device X Dimension(m)), device size (Y) (device Y Dimension(m)); a subject absolute position (Subject Absolute Position) and frame position accuracy (Frame Position Accuracy (m)), as shown with #694 to #726 in Fig.29.

[0140] There are also prescribed, as names of data elements associated with the SMPTE label, a frame centrelatitude (Frame Centre Latitude (degrees), a frame centre latitude (Frame Centre Latitude (degrees, concise), a frame centre longitude (Frame Centre Longitude (degrees), a frame centre longitude (Frame Cen-

tre Longitude (degrees, concise), a frame centre longitude (Frame Centre Longitude (degrees)), a frame centre latitude longitude (Frame Centre Lat-Long), a relative position (Relative Position), a local datum relative position (Local Datum Relative Position), local datum relative position accuracy (Local Datum Relative Position Accuracy), a device relative position (Device Relative Position), device relative position accuracy (Device Relative Position Accuracy), a device relative position (X) (Device Relative Position X (meters)), a device relative position (Y) (Device Relative Position Y (meters)), a device relative position (Z) (Device Relative Position Z (meters)), a device relative position (Device Relative Position), subject relative positional accuracy (Subject Relative Positional Accuracy (meters)), image position information (Image Position Information), a position within viewed image x coordinate (pixels) (position within viewed image x coordinate (pixels)), a position within viewed image y coordinate (pixels) (position within viewed image y source image centre (x pixel), source image centre (x pixel) (Source image centre x coordinate (pixels)), source image centre (y pixel) (Source image centre y coordinate (pixels)), a view port image centre (x pixel) (Viewport image e centre x coordinate (pixels)), a view port image centre (y pixel) (Viewport image centre y coordinate (pixel (y pixel)s)), rate and direction of positional change (Rate and Direction of Positional Change), device rate and direction of positional changes (Device Rate and Direction of Positional Changes), an absolute device rate and direction of positional changes (Absolute Device Rate and Direction of Positional Changes), device movement speed (Device Absolute Speed (meters/sec)), device heading (Device Absolute Heading (degrees)), relative device rate and direction of positional change (Relative Device Rate and Direction of Positional Change), device relative speed (Device Relative Speed (metres/sec)), device relative setting (Device Relative Setting (degrees)), subject rate and direction of positional change (Subject Rate and Direction of Positional Change), absolute subject rate and direction of positional change (absolute subject rate and direction of positional change) and subject absolute speed (metres/sec)), as shown with #727 to #759 in Fig. 30.

[0141] There are also prescribed, as names of data elements associated with the SMPTE label, subject absolute heading (subject absolute heading (degrees)), subject absolute heading (Subject Absolute Heading (degrees)), relative subject rate and direction of positional change (Relative Subject Rate and Direction of Positional Change), subject relative speed (Subject Relative Speed (metres/sec)), subject relative heading (subject relative heading (degrees)), angular specifications (angular specifications), device angles (Device angles), sensor roll angle (degrees) (Sensor Roll Angle (degrees)), an angle to north (Angle to North (degrees)), an obliquity angle (Obliquity Angle (degrees)), subject angles (Subject Angles(degrees)), distance measure-

ments (Distance Measurements), a device to subject distance (Device to Subject Distance), a slant range (slant range (metres)), distance (Dimensions), subject dimensions (Subject Dimensions), a target width (Target Width), essence positions (Studio and Location Dimensions), media dimensions (Media Dimensions), a physical media length (Physical Media Length (metres)), image size (Image Dimensions), pan and scan image dimensions (Pan and Scan Image Dimensions), a viewport height (Viewport height), a viewport width (Viewport width), abstract locations (Abstract Locations), place names (Place Names), gazetteer used (Gazetteer used), specified names (Place keyword), country codes (Country Codes), object country code (Object Country Code), country code of shoot (Country Code of Shoot), country code of setting (Country Code of Setting (Characterised Place)), country code of copyright license (Country Code of Copyright License) and country code of IP license (Country Code of IP License), as shown with #760 to #792 in Fig.31.

[0142] There are also prescribed, as names of data elements associated with the SMPTE label, regions in a country (Regions), regions of object (Region of Object), regions of shoot (Regions of Shoot), regions of setting (region of setting (Characterised Place)), region or area of Copyright License (Region or Area of Copyright License), region or area of IP License (Region or Area of IP License), a postal address (Postal Address), room numbers (Room Number), street number or building name (Street Number or Building Name), streets (Street), a postal town (Postal Town), city (City), state or province or county (State or Province or County), postal code (Postal Code), country (Country), setting addresses (Setting Address (Characterised Place)), setting room numbers (setting room number), setting street number or building name (Setting Street Number or Building name), setting streets (Setting Street), setting towns (Setting Town), setting city (Setting City), setting state of province or county, (Setting State of Province or County), a Setting postal code (Setting Postal Code), setting country (Setting Country), setting description (Setting Description), electronic addresses (Electronic Address), telephone number (Telephone Number), fax number (FAX Number), e-mail address (e-mail address), date and time information (Date and Time) and material date and time (Material Date and Time), as shown with #793 to #825 in Fig.32.

[0143] There are also prescribed, as names of data elements associated with the SMPTE label, operational date and time (Operational Date-Time Stamps), creation date and time (Creation Date-Time Stamps), creation date and time (Creation Date-Time Stamps), last modified data and time (Last Modified Date-Time Stamps), user defined date and time (User Defined Date-Time Stamps), user defined date and time (User Defined Date-Time Stamps), absolute date and time (Absolute Date and Time), start date and time (Start Date and Time), end date and time (End Date and Time),

segment start date and time (Segment Start Date and Time), segment end date and time (Segment End Date and Time); relative date and time (Relative Date and Time), media start date and time (Start Date and Time), media end date and time (End Date and Time), segment start date and time (Segment Start Date and Time), segment end date and time (Segment End Date and Time), time interval (Material Durations), absolute time interval (Absolute Durations), time duration of contents (Time Duration), segment time duration (Segment Duration), frame counts (Frame Count), segment frame counts (Segment frame count), textless black duration (Textless Black Duration), relative durations (Relative Durations), time duration (Time Duration), segment duration (Segment Duration), film frame interval (Frame Count), segment frame count (Segment frame count), rights date and time (Rights Date and Time), copyrights date and time (Copyright Date and Time), IP rights date and time (IP rights date and times) and license date and time (License date and times), as shown with #826 to #858 in Fig.33.

[0144] There are also prescribed, as names of data elements associated with the SMPTE label, option start date and time (Option start date and time), license end date and time (License end date and time), option end date and time (Option end date and time), rights durations (Rights Durations), copyrights durations (Copyrights Durations), IP rights durations (IP Rights Durations), license durations (License durations), optional durations (Option duration), cataloguing date and time (Cataloguing date and time), creation date and time (Creation date and time), last modified date and time (Last Modified), event date and time (Event Date and Time), absolute date and time of event (Absolute Date and Time), start date and time of event (Start Date and Time), project start date and time (Project Mission Start Date and Time), scene start date and time (Scene Start Date and Time), shot start date and time (Shot Start Date and Time), broadcast start date and time (Broadcast Start Date and Time), absolute end times (Absolute end times), project mission end date and time (Project Mission End Date and Time), scene end date and time (Scene End Date and Time), shot end date and time (Shot End Date and Time), broadcast end date and time (Broadcast End Date and Time), relative date and time (Relative Date and Time), event relative start date and time (Relative Start Times), project relative start date and time (Project Mission Start Date and Time), scene relative start date and time (Scene Start Date and Time), shot relative start date and time (Shot Start Date and Time), broadcast relative start date and time (Broadcast Start Date and Time), relative end time (Relative End Times), project relative end date and time (Project Mission End Date and Time), scene relative end date and time (Scene End Date and Time) and shot relative end date and time (Shot End Date and Time), as shown with #859 to #891 in Fig.34.

[0145] There are also prescribed, as names of data

elements associated with the SMPTE label, relative broadcast end date and time (Broadcast End Time), event duration information (Event Durations), absolute duration information (Absolute Durations), absolute event time duration (Time Duration), relative durations (Relative Durations), relative event time durations (Time Duration), editing date and time (Editing Date and Time), editing length (Length), editing position (Position), relative start time (StartTime), speech fade-in length (FadeInLength), speech fade-out length (Fade Out Length), cut point standard (Cut Point), time standard (Time), last edit date and time (last Modified), ID of last modified results (LastModified), last creation date and time (Last Modified), ID of last modified results (Last Modified), date and time of last creation (Creation Time), speech soft cut default standard (Default Fade Edit Unit), event time unit standard (Event Mob Slot_Edit Rate), slot time unit standard (Timeline Mob Slot_EditRate), date of final correction (Identification_Date), slot origin (Origin), process date and time (Process Date and time), technical modification date and time (Technical Modification date and time), simple correction date and time (Editorial Modification date and time), broadcast date and time (Broadcast Date and Time), cassation date and time (Cassation Date and Time), setting date and time (Characterised Time Period), term of validity of keywords (Time Period Keyword Thesaurus), time unit of keyword (Time Period of Keyword), delay time (Delay) and the encoding/decoding information (Encoding/Decoding Information), as shown with #892 to #924 in Fig.35.

[0146] There are also prescribed, as names of data elements associated with the SMPTE label, encoding delay (Encoding Delay), decoding delay (Decoding Delay), buffer delay (Buffer Delay), latency information (Latency), temporal information (Temporal Shape (Shuttering etc) (PLACEHOLDER)), shutter characteristics (Shutter characteristics (placeholder)), shutter speed (Shutter speed (placeholder)), shutter gating characteristics (Shutter Gating (placeholder)), class 14 user data (USER ORGANIZATION REGISTERED), publicly registered user organization metadata (publicly registered user organization metadata), private metadata (Privately registered user organization metadata), metadata for US Department of Defence Agency (DoD Metadata), UAV metadata (UAV metadata), RQ1A metadata (RQ1A metadata), RQ1A closed caption metadata (RQ1A closed caption Set) and class 15 experimental metadata (experimental metadata), as shown with #925 to #940 in Fig.36.

[0147] In this programme preparation and distribution system, essence data and metadata are converted into the MXF file format when transmitted on the gigabit Ethernet 1. For example, there are occasions wherein the video essence recorded on a recording medium becomes a sole MXF file or a sole MXF file is prepared from a sole video programme, wherein the unit of the essence can be freely set depending on the application.

[0148] A metadata MXF file 200 is made up of a pre-

amble portion 201 for stating metadata, a main portion (body portion) 202 for stating the essence data, an index portion 203 containing an index table and a postamble unit 204, as shown in Fig.37.

[0149] The preamble portion 201 is made up of a universal label 205, an allocation table 206 and an overall metadata area 207. The universal label 205 of this metadata MXF file 200 has the same syntax structure as the universal label of the KLV coding. The allocation table 206 is a table on which is registered the allocation information of each object in the overall metadata area 207.

[0150] The overall metadata area 207 is an area in which is stated metadata registered in a metadata dictionary which is the dictionary provision in which the universal label standardized in the SMPTE 298M is taken into keys. A Header_Object 210 is a root object for indicating each object of this overall metadata area 207. Specifically, there are provided in the node of this Header_Object 210 Identification_Object 211, Master_Metadata_Object 212, Source_Metadata_Object 213 and Essence_Data_Object 214. Since the master essence is made up of plural sorts of source essences, metadata concerning the master essence and metadata concerning the source essence are expressed by another object in this overall metadata area 207.

[0151] The Master_Metadata_Object 212 is an object containing metadata for explaining the properties of each essence contained in this metadata MXF file 200 and pointers for pointing to a Master_Timeline_Track_Objects 215. The Master_Timeline_Track_Objects 215 is an object which defines and explains tracks contained in this metadata MXF file 200 and which points to a Master_Clip_Object 216. A track herein means a unit set from one essence sort, such as video or audio, to another, whilst clip means an editing clip provided for respective in- and out-points in essence editing and has a unit different from that of a scene. The Master_Clip_Object 216 is an object containing metadata indicating which source material is being used, and also containing a pointer indicating the Source_Metadata_Object 213.

[0152] The Source_Metadata_Object 213 is an object provided for each source essence constituting a master essence and is an object containing metadata concerning the source essence and a pointer indicating a Source_Timeline_Track_Object 217. The Source_Timeline_Track_Object 217 is an object set from one track of each source essence to another and includes metadata concerning each track and a pointer for indicating a Source_Clip_Object 218. The Source_Clip_Object 218 is an object set from one clip contained in each track constituting each source essence, and includes metadata concerning the clip and a pointer for indicating an Essence_Clip 219. Therefore, the Essence_Clip 219 is an object containing data of clips constituting the essence.

[0153] In this programme preparation and distribution system 100, programme preparation and distribution

processing is carried out in accordance with a work flow shown in Flgs.38 and 39.

[0154] That is, in the work flow of this programme preparation and distribution system 100, the pre-production processing executed by the distributed programme editing system 10 is shown as a programme planning processing PLN in which an acquisition processing ACQ is carried out by the acquisition system 60 and the material storage (ingestion) processing ING, editing processing ED, CG generating processing (CG creation) processing CGC and audio creation processing AUC are carried out to prepare a distribution programme. On the distribution programme, so prepared, the program distribution processing DST and the programme archiving processing are executed by the programme distribution system 50 and by the archive system 40, respectively,

[0155] In this programme preparation and distribution system 100, metadata indicating the variable information is generated from project to project, from medium to medium, from scene to scene or from frame to frame, to realize an asset management by controlling the archive system 40 depending on metadata.

[0156] Among the metadata generated from project to project, there are metadata indicating variable information, such as main title (Main Title), secondary title (Secondary Title (Sub-Title)), series (Series Number), episodes (Episode), original (Original Bock/Title), author (Original Author/Writer), director (Director), right (Right) or copyright (Copyright).

[0157] Among metadata generated from medium to medium, there are metadata indicating variable information, such as real (roll) number (Real Number (Roll Number)), or frame rate (Frame rate).

[0158] Among metadata generated from scene to scene, there are metadata indicating the variable information, such as performers (Cast Actor/Actress), elements (Elements), screen play (Screen Play), scene description (Scene Description), sets (Set), properties (Properties), unit/crew/staff (Unit/Crew/Staff), camera setup data (Camera Setup Data), writing information (Writing Info), video format (Video Format), audio format (Audio Format), audio channel assignment (Audio Channel Assignment), motion capture data (motion capture data), comment (Comment), telecine data (Telecine Data), composers of sound track (SoundTrack(Music)), song writers (Song Writer), an arranger (Arranger), compositing information (Compositing Info), visual effect (Visual Effects), sound effects (Sound. Effects), V-Chip information (V-chip information) or generation (Generation (Number of copies)).

[0159] Among metadata generated from frame to frame, there are metadata indicating variable information, such as scene number (Scene Number), shot number (Shot Number), take number (Take Number), OK shot/NG shot (OK shot/NG shot), UMID (video) (UMID for video essence), UMID (audio) (UMID for audio essence), UMID (others) (UMID for Others), places

(Places), GPS latitude (GPS Latitude), GPS longitude (GPS Longitude), GPS altitude (GPS Altitude), camera ID (Camera ID), camera lens (Camera Lens Data), lens ID (Lens ID), focus (Focus), zoom (Zoom), iris (Iris), tripod angle information (Tripod), tripod ID (Head ID), pan (Pan), tilt (Tilt), roll (Roll), dolly position information (Dolly), arm height (Arm Height), position (Travel) and closed caption (Closed Caption).

[0160] In the pre-production step executed by the distributed programme editing system 10, planning processing PP1, casting (Casting) processing PP2, storyboard processing PP3, screen play processing PP4, location hunting processing PPS and scheduling processing PP6, are carried out.

[0161] In the planning processing PP1 for inspecting the programme contents, there are generated metadata such as main title (Main Title), secondary title (Secondary Title (Sub-Title)), series (Series Number), episodes (Episode), original (Original Block/Title), author (Original Author/Writer), director (Director), element (Element), comment (Comment), composer (Composer) of sound track (soundtrack(Music)), song writers (Song Writer), arrangers (Arranger), rights (Right), copyright (Copyright) or V-Chip information (V-Chip info). In the stage of the casting processing PP2, metadata indicating the information determining the performers, metadata indicating the variable information such as performers (Cast Actor/Actress) or unit/crew/staff (Unit/Crew/Staff) is generated. In the stage of the storyboard processing PP3 for inspecting the programme contents, there are generated metadata such as scene number (Scene Number), shot number (Shot Number), set (Set), properties (Properties), video format (Video Format), frame rate (Frame rate), audio format (Audio format) or audio channel assignment (Audio Channel Assignment). In the stage of screen play processing PP4 of ascertaining the screen play, there are generated metadata such as screen play (Screen Play), scene description (Scene Description), place (Place) and closed caption.

[0162] The metadata indicating variable information such as main title (Main Title), secondary title (Secondary Title (Sub-Title)), series (Series Number), episodes (Episode), original (Original Block/Title), author (Original Author/Writer) or director (Director), are generated after the project and are utilized for the casting (Casting) processing PP2, storyboard processing PP3, screen play processing PP4, location hunting processing PP5 and scheduling processing PP6, while being utilized for the acquisition processing ACQ by the acquisition system 60, authoring processing (Authoring) by the production system 20, programme distribution processing DST by the programme distribution system 50 or the programme archiving processing ARV by the archive system 40.

[0163] The variable metadata, generated by the distributed programme editing system 10 in the pre-production stage, are transmitted over the gigabit Ethernet 1 to the archive system 40 for storage in a petasite 40B

of the archive system 40. The production system 20, new system 30, archive system 40, programme distribution system 50 and the acquisition system 60 are able to capture the variable metadata stored in the petasite 40B of the archive system 40 over the gigabit Ethernet 1 as necessary.

[0164] Meanwhile, there are occasions wherein the variable metadata, generated in the pre-production stage, are modified and rewritten in the variable processing stages which will be explained subsequently.

[0165] The acquisition system 60 takes the metadata required for acquisition equipments, that is shot devices, to execute the acquisition processing ACQ.

[0166] In the acquisition processing ACQ, executed by the acquisition system 60, metadata indicating the real (roll) number (Real Number (Roll Number)), scene number (Scene Number), take number (Take Number), OK shot/NG shot (OK shot/NG shot), UMID (video) (UMID for video essence), UMID (audio) (UMID for audio essence), UMID (data) (UMID for data essence), UMID (others), (UMID for Others), camera setup data (Camera Setup Data), camera ID (Camera ID), camera lens (Camera Lens Data), lens ID (Lens ID), focus (Focus), zoom (Zoom), iris (Iris), tripod angle information (Tripod), tripod ID (Head ID), pan (Pan), tilt (Tilt), roll (Roll), dolly position information (Dolly), arm height (Arm Height) or position (Travel), are generated.

[0167] The variable metadata, generated in the acquisition processing stage by the acquisition system 60, is supplied along with the image and speech information, obtained on acquisition, to the production system 20.

[0168] The production system 20 executes an ingesting (Ingesting) processing PR1, telecine (Telecine) processing PR2, dupe (Dupe) processing PR3, off-line editing (Off-line Editing) processing PR4, complete edit (Complete Edit) processing PR5, voice over (Voice Over) processing PR6, sound effect (Sound Effect) processing PR7, sound sweetening (Sound Sweetening) processing PR8, CG creation (CG Creation) processing PR9 and finishing (Finishing) processing PR10.

[0169] The ingesting (Ingesting) processing PR1 in the production system 20 stores the variable metadata generated on acquisition by the acquisition system 60 along with the video or audio information. The telecine processing PR2 converts the video or audio information recorded on the film obtained by the acquisition system 60 into television signals. The off-line editing processing PR4 performs material editing operations on the video and audio data (material data), based on the information concerning the material added as metadata, to prepare an editing decision list (EDL) which is the metadata derived from the editing results. The editing results indicate the in- and out-points on the recording medium and the information concerning the edit points represented by the real number 1 or the time code. The present complete edit (Complete Edit) processing PR5 executes

complete editing on the material stored by the telecine processing PR2 using the EDL prepared by the off-line editing processing PR4. The finishing (Finishing) processing PR9 completes the distributed programme using the video and audio data completely edited by the complete editing processing PR5 and an audio material processed with voice over (Voice Over) processing PR5. There are occasions wherein the CG picture prepared by the CG creation (CG Creation) processing CGC or the material stored in the archive system 40 is used at this time.

[0170] The programme distribution system 50 executes the authoring processing of distributing the distribution programme completed by the finishing (Finishing) processing PR9 as a package medium or the distribution processing of distributing the programme over a radio network or a wired network.

[0171] The programme preparation and distribution system 100 of the above-described structure inputs, in the pre-production stage executed by the distributed program editing system 10 and in the casting processing PP2 such metadata as main title (Main Title), secondary title (Secondary Title (Sub-Title)), series (Series Number), episodes (Episode), original (Original Book/Title), author (Original Author/Writer), director (Director), composer (Composer) of sound track (SoundTrack (Music)), song writers (Song Writer) or arrangers (Arranger), to a computer or a portable telephone device, and sends to the production system 20 the input metadata co-packed with the video or audio information obtained on acquisition by the acquisition system 60, to perform timing designation of flowing the staff roll in the off-line editing processing PR4 in the production system 20 to automatically generate characters consistent with the metadata co-packed with the audio or video information to effect complete edit processing PR5.

[0172] In this programme preparation and distribution system 100, a database is constructed in which the archive system 40 manages metadata in a concentrated fashion along with the essence such as video and audio data. By the distributed programme editing system 10, the metadata inputted at the planning processing PP1 and at the casting processing PP2 is registered in the database managed in a concentrated fashion by an archival manager 40A of the archive system 40, at the same time as a tag specifying the registered metadata is issued. This tag is co-packed with the video and audio information obtained on acquisition by the acquisition system 60. In the production system 20, the timing to flow the staff roll is specified during the off-line processing PR4 in the production system 20. In accordance with the specified timing, the metadata is taken out from the database pointed by the tag co-packed with the video information or the audio information to generate the corresponding character automatically to effect complete editing processing.

[0173] That is, with the present programme preparation and distribution system 100, it is possible to con-

struct a supporting system of automatically generating the character of the staff roll using the metadata.

[0174] In this programme preparation and distribution system 100, the GPS data indicating the place, position or time of acquisition is inputted as metadata in the stage of the acquisition processing ACQ by the acquisition system 60 and the input metadata is co-packed with the audio or video information obtained on acquisition by this acquisition system 60. At the off-line editing processing PR4 in the production system 20, an editor is able to execute temporal programme distribution without the editor becoming conscious of the presence of the GPS data. At the CG creation processing PR9, retrieval is made from the database showing a separately provided database, using tag data indicating the position or time co-packed in the video or audio information to output map graphics to complete the programme employing the map graphic by the complete editing processing PR5.

[0175] In this case, as when automatically generating the character, the metadata indicating the position or time can be registered in the database managed in a concentrated fashion by the archival manager 40A of the archive system 40 to support the CG creation processing PR9.

[0176] That is, in this programme preparation and distribution system 100, the GPS data and map data can be matched to each other, using metadata, to construct the CG creation supporting system.

[0177] If it is attempted to prepare contents using the VTR, a large amount of a material video tape is produced in acquisition. For example, if a 30-minute document is to be created, 50 to 100 material tapes are produced and necessary cuts are selected therefrom and connected together to prepare contents.

[0178] Thus, in this programme preparation and distribution system 100, metadata of such items as UMID (video) (UMID for video essence), reminiscent of contents acquired in the material tape (UMID for video essence), UMID (audio) (UMID for audio essence), UMID (data) (UMID for data essence), UMID (others) (UMID for others), reel (roll) number (Real Number (Roll Number), tape ID (Tape ID), tape number (Tape ID Number), object ID (object ID), main title (Main Title), secondary title (Secondary Title (Sub-Title)), series (Series Number), episodes (Episode), metadata to essence (Metadata to Essence), locators (Locators) or essence descriptions (Essence Descriptions), are co-packed and recorded along with the video or audio information. This enables the production system 20 to read out the metadata at the time of reproduction to retrieve the cuts as necessary from the material tape quickly, using the read-out metadata as clue. In this case, metadata of items reminiscent of the contents recorded in the material tape is co-packed with the video or audio information and recorded in synchronism in a video frame or the contents of tens to hundreds of video tapes are collected and recorded on a controllable external recording me-

dium.

[0179] That is, in this programme preparation and distribution system 100, a supporting system can be constructed in which the labor in tape screening operations can be diminished with the aid of metadata.

[0180] Moreover, in this programme preparation and distribution system 100, metadata of items concerning the telecine, such as vertical rate (Vertical rate), a frame rate (Frame Rate), total number of lines/frame (Total lines per Frame), active lines/frame (Active Lines per Frame), aspect ratio (Display Aspect Ratio), image aspect ratio (ImageAspectRatio), stored height (Stored Height), sample height (Sample Height), sample width (Sample Width), sample X offset (SampledX Offset), sample Y offset (SampledY Offset), display width (Display Width), displayX Offset (DisplayX Offset) or video coding characteristics (Video Coding Characteristics) are co-packed and recorded along with the video or audio information. In this manner, in the complete edit processing PR5, output trimming positions can be calculated using metadata recorded in keeping with the output format after the editing operation following the output format to obtain an output.

[0181] Also, in this programme preparation and distribution system 100, the essence data and metadata when transmitted on the gigabit Ethernet 1 are converted to the MXF file format, such that, in the editing operation by the production system 20, the status of the material used in the editing operation is stated as hysteresis in the header information. The contents makeup can be comprehended from the header information. The Clip_object, for example, terms the scene or cut a clip and indicates the time code indicating the temporal beginning or end, as described above. The contents are a set of clips. By sequentially searching the information indicated by the clip in the chronological sequence, it is possible to know the time code as a chapter candidate. Since the number of ultimate chapters is smaller than the number of change points of clips, the entire chapters can be determined by selecting only necessary ones of candidate chapters.

[0182] Thus, in this programme preparation and distribution system 100, in distributing the contents prepared by the production system 20 by mediums, such as DVD or LD, the MFX file headers are searched for packages, the editing operations of which has been completed by the production system 20, the MFX file headers are searched to list up candidates of chapter points and the chapter points ahead and in back of the candidates are viewed to select only necessary chapter points to convert the format for distributing the contents to the mediums, such as DVD or LD, by way of authoring processing. That is, in this authoring system 52, authoring processing of the editing video programme is performed from the metadata specifying the logical structure of the video programme.

[0183] In addition, in this programme preparation and distribution system 100, in which the information such

as rights concerning performers from scene to scene (Rights), copyright (Copyright), intellectual rights (Intellectual Rights), owners (Rights Owner), payments and costing information (Payments and costing), is logged and recorded simultaneously as metadata, it is possible to trace clips if such clips are sliced.

[0184] According to the present invention, in which the essence is created, metadata for describing the essence is generated when creating the essence, the essence and the metadata are correlated with each other, and the operation to be performed on the archived essence is controlled based on the metadata to perform the asset management on the essence, it is possible to process a sequence of operations from the acquisition and preparation to the editing, sending out and archiving efficiently.

[0185] Moreover, according to the present invention, in which the essence is created, metadata for explaining the essence is generated, the essence and the metadata are archived in relation with each other, and the metadata is used to control the operation performed on the archived essence, asset management may be performed on the essence.

[0186] Also, according to the present invention, in which metadata for explaining the essence is generated and the essence and the metadata are controlled based on the above-mentioned information to effect the asset management on the essence, it is possible to realize efficient processing of a sequence of operations from acquisition and creation to the editing, sending out and archiving.

[0187] In addition, according to the present invention, in which the information specifying the attributes of the essence, the essence and the information are recorded correlatively with each other on a recording medium and the recording and/or reproducing operations for reproducing the essence from the recording medium is controlled based on the above-mentioned information, to perform the asset management on the essence, it is possible to realize efficient processing of a sequence of operations from acquisition and creation to the editing, sending out and archiving.

[0188] Furthermore, according to the present invention, in which metadata for specifying the attributes of the essence or metadata or identifying the essence is generated, and the operation of archiving the essence correlatively with the metadata is controlled using the metadata, to perform the asset management for the essence, it is possible to realize efficient processing of a sequence of operations from acquisition and creation to the editing, sending out and archiving.

[0189] According to the present invention, by creating an essence and generating metadata used for accounting for the essence, it is possible to create the project from the essence efficiently using the metadata.

[0190] Also, according to the present invention, by creating an essence, generating metadata used for accounting for the essence, and controlling an operation

of post-production based on the metadata, it is possible to create the project from the essence efficiently.

[0191] Also, according to the present invention, by creating an essence, generating metadata used for accounting for the essence, and performing an operation of post-production correlatively with the metadata, it is possible to create the project from the essence efficiently.

[0192] Also, according to the present invention, by creating an essence and generating metadata used for identifying the essence, it is possible to create the project from the essence efficiently using the metadata generated at the time of the production.

[0193] Also, according to the present invention, by creating an essence, generating metadata used for identifying the essence, and controlling an operation of postproduction based on the metadata, it is possible to create the project from the essence efficiently.

[0194] Further, according to the present invention, by creating an essence, generating metadata used for identifying the essence, and performing an operation of post-production correlatively with the metadata, it is possible to create the project from the essence efficiently.

[0195] According to the present invention, by generating metadata for accounting for the essence, performing an operation of the production using the metadata, and creating the essence, it is possible to create the project from the essence efficiently.

[0196] Also, according to the present invention, by generating metadata for accounting for the essence, creating the essence and storing the essence and the metadata correlatively with each other on a recording medium, and performing an operation of production using the metadata, it is possible to create the project from the essence efficiently.

[0197] According to the present invention, by creating the essence and generating metadata used for accounting the essence, and performing control based on the metadata so that an asset management for the essence archived will be performed to archive the essence and the metadata correlatively with each other, it is possible to archive the essence efficiently.

[0198] Also, according to the present invention, in a method for archiving an essence, by creating the essence and generating metadata used for accounting the essence, performing an operation for the essence using the metadata, and archiving an essence and the metadata correlatively with each other, it is possible to archive the essence efficiently.

[0199] Also, according to the present invention, in a method for archiving an essence, by creating the essence and generating metadata used for accounting the essence, and controlling a reproducing operation for the essence archived, using the metadata, the essence and the metadata are archived correlatively with each other. Thus, it is possible to archive the essence efficiently.

[0200] Also, according to the present invention, in a

method for archiving an essence, by creating the essence and generating metadata used for accounting the essence, and controlling a retrieving operation for the essence archived, using the metadata, the essence and the metadata are archived correlatively with each other. Thus, it is possible to archive the essence efficiently.

[0201] Also, according to the present invention, in a method for archiving an essence, by creating the essence and generating metadata pertinent to the essence, and performing control, using the metadata, so that an operation for the essence archived will be performed, the essence and the metadata are archived correlatively with each other. Thus, it is possible to archive the essence efficiently.

[0202] Also, according to the present invention, in a method for archiving an essence, by creating the essence and generating metadata pertinent to the essence, and performing control based on the metadata so that an asset management for the essence archived will be performed, the essence and the metadata are archived correlatively with each other. Thus, it is possible to archive the essence efficiently.

[0203] Also, according to the present invention, in a method for archiving an essence, by creating the essence and generating metadata pertinent to the essence, and controlling a reproducing operation for the essence archived, using the metadata, the essence and the metadata are archived correlatively with each other. Thus, it is possible to archive the essence efficiently.

[0204] Also, according to the present invention, in a method for archiving an essence, by creating the essence and generating metadata pertinent to the essence, and controlling a retrieving operation for the essence archived, using the metadata, the essence and the metadata are archived correlatively with each other. Thus, it is possible to archive the essence efficiently.

[0205] According to the present invention, by creating the essence and generating metadata pertinent to the essence, and performing post-production processing on the essence; it is possible to allot the essence efficiently using metadata generated at the time of the production.

[0206] Also, according to the present invention, by creating the essence and generating metadata pertinent to the essence, performing post-production processing on the essence, and controlling an operation of distribution, using the data, it is possible to allot the essence efficiently.

[0207] Also, according to the present invention, in a distribution method for allotting an essence, by creating the essence and generating metadata used for accounting for the essence, and performing post-production processing on the essence, it is possible to allot the essence efficiently, using the metadata generated at the time of the production.

[0208] Further, according to the present invention, in a distribution method for allotting an essence, by creating the essence and generating metadata used for accounting for the essence, performing post-production

processing on the essence, and controlling an operation of the distribution, using the metadata used at the time of the production, it is possible to allot the essence efficiently.

[0209] According to the present invention, by creating the essence and generating metadata pertinent to the essence, performing post-production on the essence, and creating the package medium from an essence processed with post-production using metadata, it is possible to create a package medium efficiently from an essence.

[0210] Also, according to the present invention, by generating metadata pertinent to the essence, creating the essence, performing post-production on the essence, and creating the package medium from an essence processed with post-production using the metadata, it is possible to create a package medium efficiently from an essence.

[0211] Also, according to the present invention, by creating the essence and generating metadata used for accounting for the essence, and creating the package medium from an essence processed with post-production, using the metadata, it is possible to create a package medium efficiently from an essence.

[0212] Further, according to the present invention, by generating metadata used for accounting for the essence, creating the essence; performing post-production on the essence, and creating the package medium from an essence processed with post-production, using metadata generated at the time of the pre-production, it is possible to create a package medium efficiently from an essence.

[0213] According to the present invention, by generating metadata indicating the rights of the essence, and performing control based on the metadata so that a circulating operation of the essence will be performed, asset management processing is effected on the essence. Thus, it is possible to manage the essence efficiently.

[0214] Also, according to the present invention, by generating metadata specifying rights pertinent to the essence, and performing control based on the metadata so that a circulation operation of the essence will be performed, asset management processing is effected on the essence. Thus, it is possible to manage the essence efficiently.

[0215] Also, according to the present invention, by generating metadata specifying rights pertinent to the essence, and performing control based on the metadata so that a re-utilizing operation of the essence will be performed, asset management processing is effected on the essence. Thus, it is possible to manage the essence efficiently.

[0216] Also, according to the present invention, by creating the essence and generating metadata specifying rights pertinent to the essence, and performing control based on the metadata so that a re-utilizing operation of the essence will be performed, asset management processing is effected on the essence. Thus, it is

possible to manage the essence efficiently.

[0217] According to the present invention, by creating the essence and for generating UMID (unique material identifier) for discriminating the essence, controlling an operation in the post-production based on the UMID, and editing the essence, the programme is generated. Thus, it is possible to create the programme efficiently from the essence.

[0218] Also, according to the present invention, by creating the essence and for generating UMID (unique material identifier) for discriminating the essence, controlling an archiving operation of archiving an essence generated by production processing and/or an essence processed with post-production based on the UMID, and editing the essence, the programme is generated. Thus, it is possible to create the programme efficiently from the essence.

[0219] According to the present invention, by generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels, receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata, and controlling the processing relevant to the essence based on the extracted metadata, it is possible to create the essence efficiently.

[0220] Also, according to the present invention, by generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels, receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata, and controlling the production processing performed on the essence based on the extracted metadata, it is possible to create the essence efficiently.

[0221] Also, according to the present invention, by generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels, receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata, and controlling the post-production processing performed on the essence based on the extracted metadata, it is possible to create the essence efficiently.

[0222] Also, according to the present invention, by generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels, receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata, and controlling the archiving processing performed on the essence based on the extracted metadata, it is possible to create the essence efficiently.

[0223] Further, according to the present invention, by

generating a plurality of metadata which are data pertinent to the essence and which are respectively identified by SMPTE (Society of Motion Picture and Television Engineers) labels, receiving the essence and the plural metadata and analyzing the SMPTE labels to extract pre-set metadata from the plural metadata, and controlling an operation for asset management performed on the essence based on the extracted metadata, it is possible to create the essence efficiently.

Claims

1. An asset management system for managing an essence, comprising:

means for creating said essence and for generating metadata for explaining said essence when creating said essence;
means for archiving said essence and the metadata correlatively with each other; and
means for controlling an operation performed on the archived essence based on said metadata to realize asset management for said essence.

2. An asset management system for managing an essence, comprising:

means for generating the information for explaining said essence;
means for recording and/or reproducing said essence and the information correlatively with each other; and
means for managing and/or controlling a recording and/or reproducing operation of said essence based on said information to effect asset management for said essence.

3. An asset management system for managing an essence, comprising:

means generating the information specifying attributes of said essence;
recording said essence and the information correlatively with each other on a recording medium to reproduce said essence from said recording medium; and
control means for controlling the recording and/or reproducing operations for said essence based on said information to effect asset management for said essence.

4. An asset management method for managing an essence, comprising:

creating said essence and for generating metadata for explaining said essence when creating

said essence;
associating said essence and the metadata with each other; and
controlling an operation performed on the archived essence based on said metadata to realize asset management for said essence.

5. An asset management method for managing an essence, comprising:

generating the information for explaining said essence; and
controlling the recording and/or reproducing operation of recording and/or reproducing said essence and the information correlatively with each other based on said information to effect asset management for said essence.

6. An asset management method for managing an essence, comprising:

generating the information specifying attributes of said essence; and
recording said essence and the information correlatively with each other on a recording medium and controlling the recording and/or reproducing operations for said essence based on said information to effect asset management for said essence.

7. A production system for creating a project from an essence, comprising:

production for creating said essence and for generating metadata for accounting for said essence; and
post-production of creating said project from said essence using metadata generated at the time of said production.

8. A production system for creating a project from an essence, comprising:

production for creating said essence and for generating metadata for accounting for said essence; and
post-production of creating said project from said essence;

wherein an operation of said post-production is controlled based on metadata generated at the time of said production.

9. A production method for creating a project from an essence, comprising the steps of:

creating said essence and generating metadata used for accounting for said essence; and

creating said project from said essence using said metadata.

10. A production method for creating a project from an essence, comprising the steps of:

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creating said essence and generating metadata used for accounting for said essence; and controlling an operation of post-production based on said metadata to create said project from said essence.

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11. A production system for creating a project from an essence, comprising:

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pre-production for creating metadata used for accounting for said essence;
production for performing an operation for creating said essence, using said metadata; and post-production for creating said project from said essence.

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12. A production system for creating a project from an essence, comprising:

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a pre-production for creating metadata used for accounting for said essence;
a production for creating said essence and for storing said essence and the metadata correlatively with each other on a recording medium; and
a post-production for creating said project from said essence;

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wherein an operation in said production is performed using the metadata generated at the time of said pre-production.

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13. An archiving system for archiving an essence, comprising:

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production for creating said essence and for generating metadata used for accounting said essence;
archiving means for archiving said essence and the metadata correlatively with each other; and means for controlling said archiving means so that an operation for said essence will be performed using said metadata.

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14. An archiving system for archiving an essence, comprising:

production for creating said essence and for generating metadata used for accounting said essence;
archiving means for archiving said essence and the metadata correlatively with each other; and

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controlling means for controlling said archiving means so that asset management for said essence archived by said archiving means will be performed based on said metadata.

15. A method for archiving an essence, comprising the steps of:

creating said essence and generating metadata used for accounting said essence;
performing an operation for said essence using said metadata; and
archiving said essence and the metadata correlatively with each other.

16. A method for archiving an essence, comprising the steps of:

creating said essence and generating metadata used for accounting said essence; and performing control based on said metadata so that an asset management for said essence archived will be performed to archive said essence and the metadata correlatively with each other.

17. A distribution system for allotting an essence, comprising:

a production for creating said essence and for generating metadata pertinent to said essence; a post-production for performing post-production processing on said essence; and distribution means for allotting said essence using metadata generated at the time of said production.

18. A distribution system for allotting an essence, comprising:

a production for creating said essence and for generating metadata pertinent to said essence; a post-production for performing post-production processing on said essence; and distribution means for allotting said essence;

wherein an operation of said distribution means is controlled using the metadata used at the time of said production.

19. A distribution method for allotting an essence, comprising the steps of:

creating said essence and generating metadata pertinent to said essence;
performing post-production processing on said essence; and
allotting said essence using metadata generated

ed at the time of said production.

20. A distribution method for allotting an essence, comprising the steps of:

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creating said essence and generating metadata pertinent to said essence;
performing post-production processing on said essence; and
controlling an operation of distribution, using said data, to allot said essence.

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21. An authoring system for creating a package medium from an essence, comprising:

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a production for creating said essence and for generating metadata pertinent to said essence;
a post-production for performing post-production on said essence; and
authoring means for creating said package medium from an essence processed with post-production, using metadata generated at the time of said production.

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22. The authoring system according to claim 1 wherein said authoring means performs authoring processing for an editing video programme from metadata indicating the logical structure of a video programme.

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23. An authoring method for creating a package medium from an essence, comprising the steps of:

creating said essence and generating metadata pertinent to said essence;
performing post-production on said essence; and
creating said package medium from an essence processed with post-production using metadata.

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24. An authoring method for creating a package medium from an essence, comprising the steps of:

generating metadata pertinent to said essence;
creating said essence;
performing post-production on said essence; and
creating said package medium from an essence processed with post-production using said metadata.

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25. An asset management system for managing an essence, comprising:

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a pre-production for generating metadata indicating the rights of said essence and;
a production for creating said essence;

asset management means for performing asset management processing on said essence; and means for controlling said asset management means so that a circulation operation of said essence will be performed based on said metadata.

26. An asset management system for managing an essence, comprising:

means for creating said essence and for generating metadata specifying rights pertinent to said essence;
asset management means for performing asset management processing on said essence; and means for controlling said asset management means, based on said metadata, so that a circulating operation of said essence will be performed based on said metadata.

27. An asset management method for managing an essence, comprising the steps of:

generating metadata indicating the rights of said essence;
creating said essence; and
performing control based on said metadata so that a circulating operation of said essence will be performed to effect asset management processing on said essence.

28. An asset management method for managing an essence, comprising the steps of:

creating said essence and for generating metadata specifying rights pertinent to said essence; and
performing control based on said metadata so that a circulation operation of said essence will be performed to effect asset management processing for said essence.

29. A production system for creating a programme from an essence, comprising:

a production for creating said essence and for generating UMID (unique material identifier) for discriminating said essence;
a post-production for editing said essence for generating said programme; and
means for controlling an operation in said post-production based on said UMID.

30. A production method for creating a programme from an essence, comprising the steps of:

creating said essence and for generating UMID (unique material identifier) for discriminating

said essence; and
controlling an operation in said post-production
based on said UMID to edit said essence to
generate said programme.

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31. A production system for creating an essence, comprising:

means for generating a plurality of metadata
which are data pertinent to said essence and 10
which are respectively identified by SMPTE
(Society of Motion Picture and Television Engineers) labels;
means for receiving said essence and said plural 15
metadata and analyzing said SMPTE labels
to extract pre-set metadata from said plural
metadata; and
means for controlling the processing relevant
to said essence based on the extracted meta- 20
data.

32. A control method of a production system for creating an essence, comprising the steps of:

generating a plurality of metadata which are data 25
pertinent to said essence and which are respectively
identified by SMPTE (Society of Motion Picture and
Television Engineers) labels;
receiving said essence and said plural metadata 30
and analyzing said SMPTE labels to extract
pre-set metadata from said plural metadata;
and
controlling the processing relevant to said essence 35
based on the extracted metadata.

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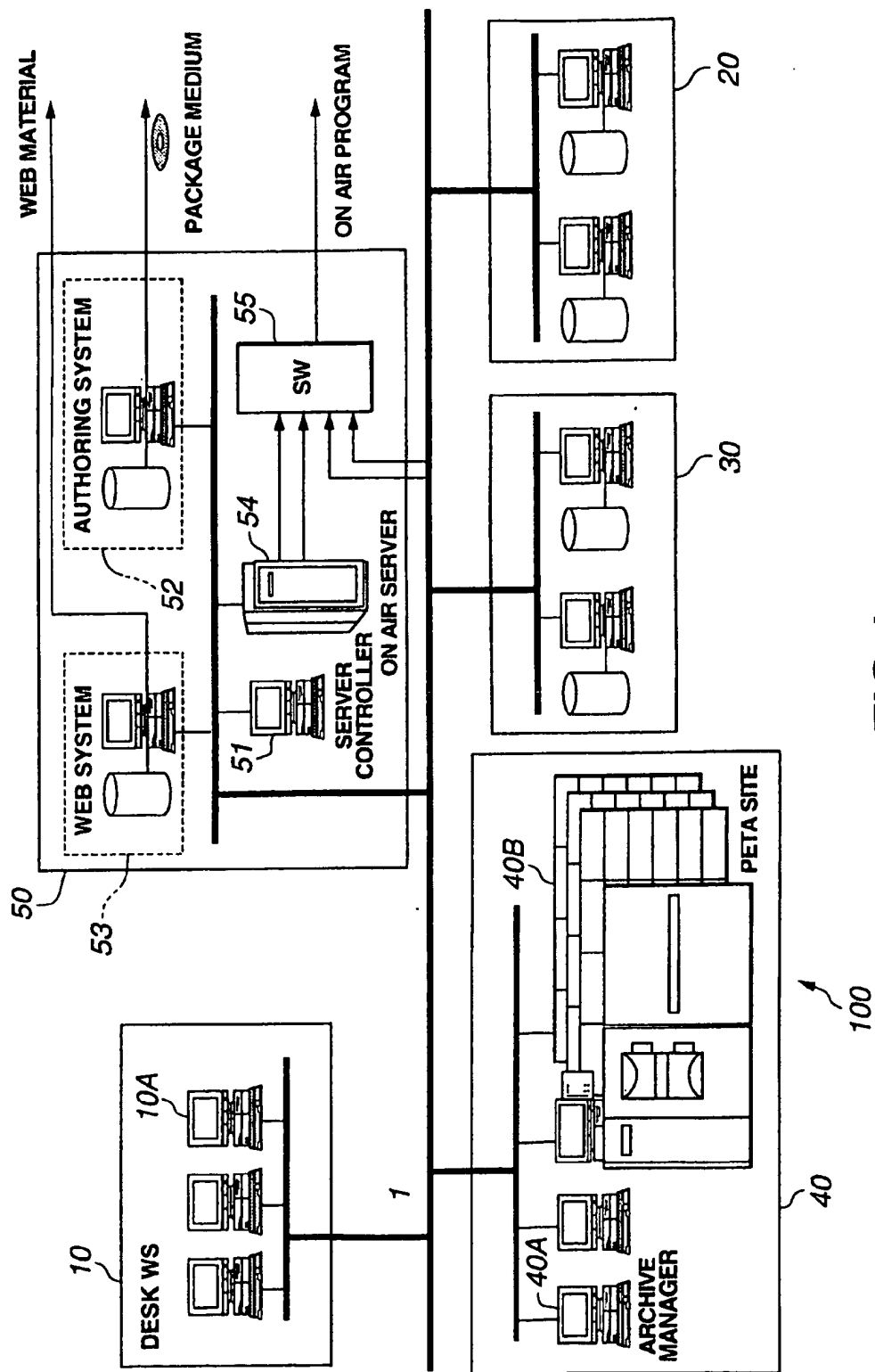


FIG. 1

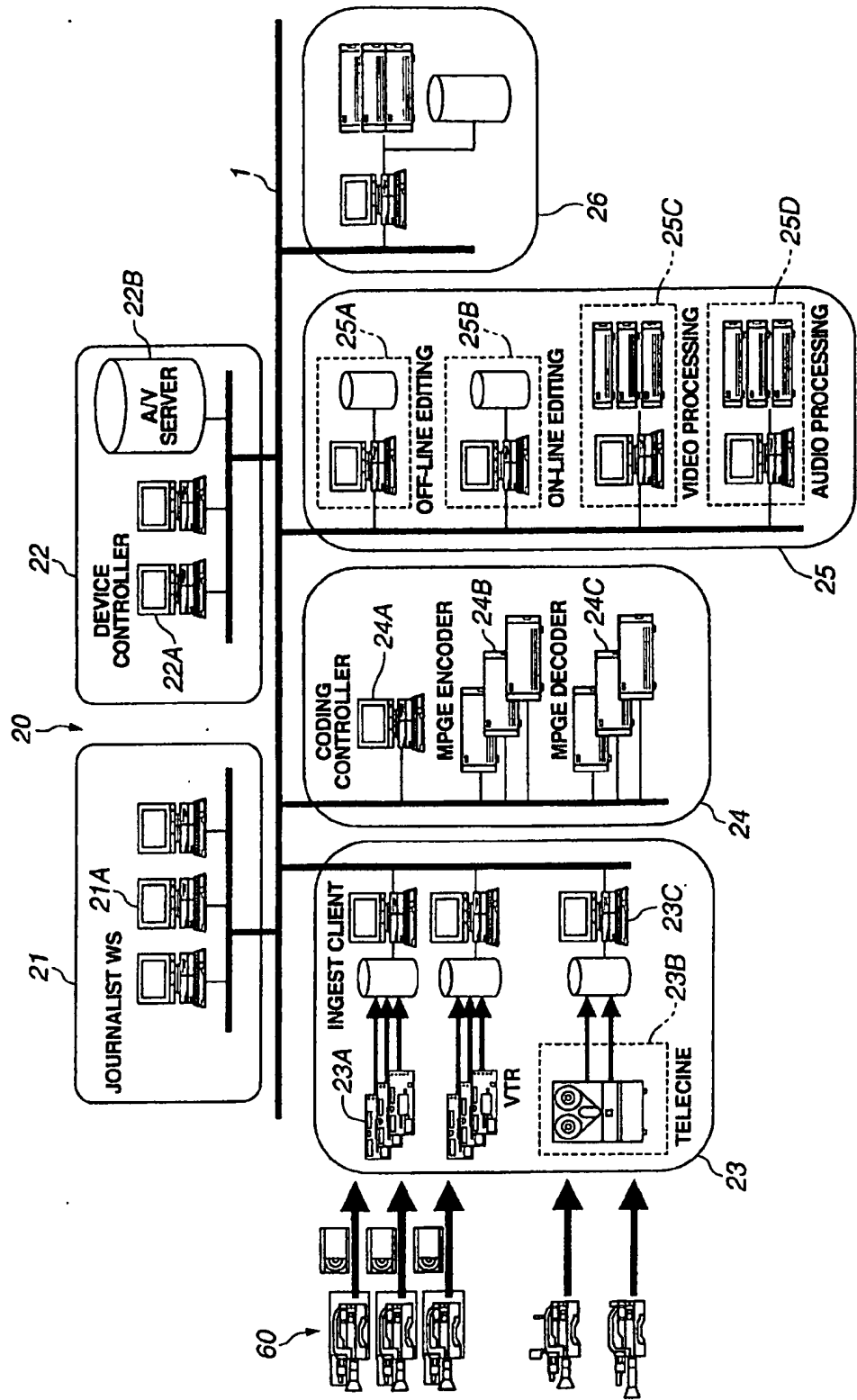


FIG.2

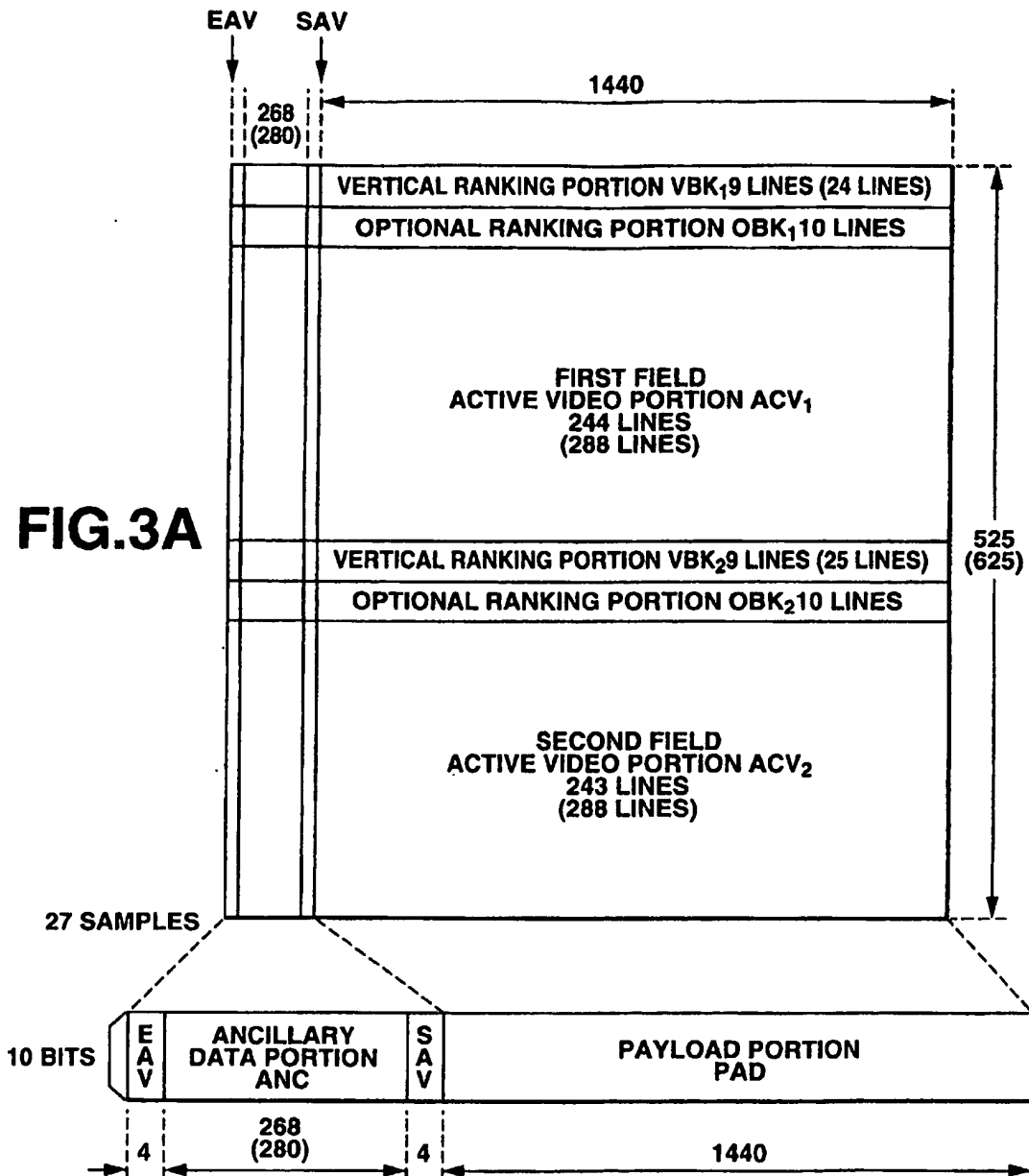
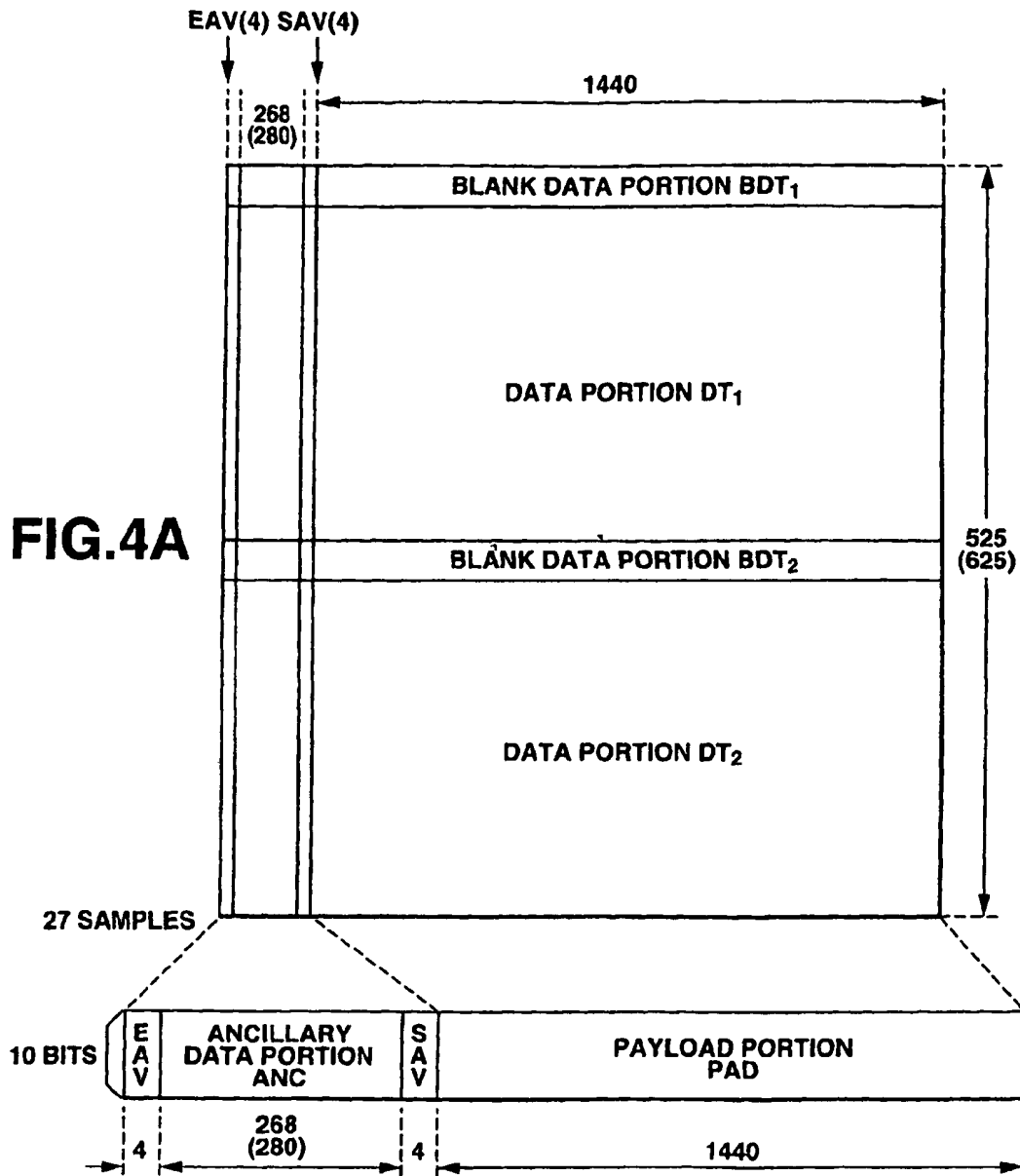


FIG.3B



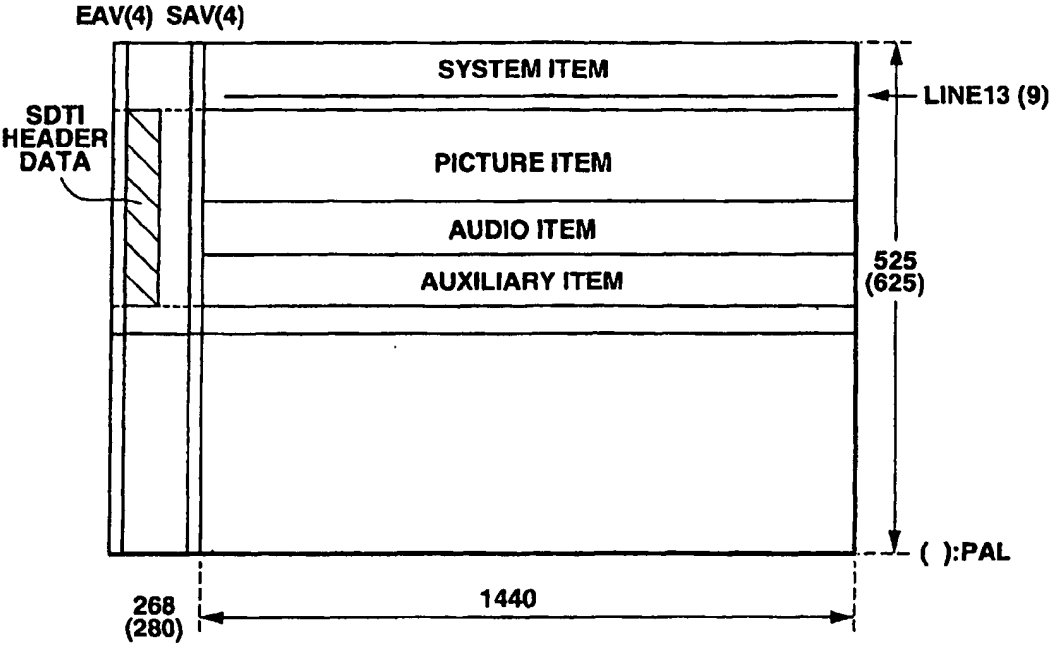


FIG.5

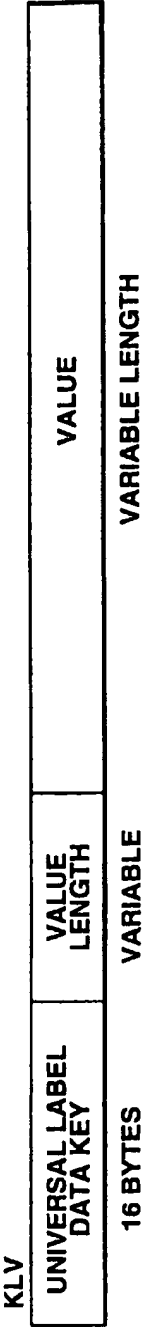


FIG.6

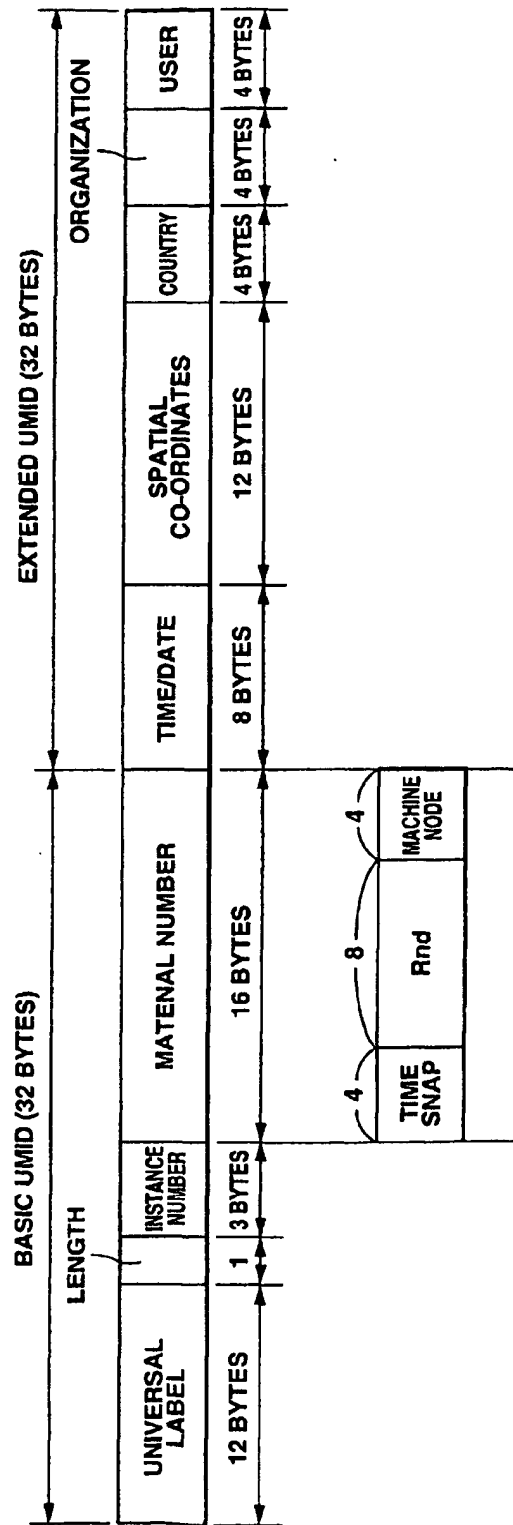


FIG.7

	SMPTE field			Data Element Name:	Japanese Names	Brief Formal Definition	Type	Value Length	Value Range	Mnemonic/Letters	Defining Document
1	01	00	00	00	Class 1 ID and Location	Class 1 materials is reserved for abstract identifiers & locations	REFR			Note	
2	01	01	00	00	Globally Unique Identifiers	Unique identifiers and locators	REFR			Note	
3	01	01	01	xx	UMID Video	Unique Material Identifier for video essence. Note - the UMID has a 12 byte SMPTE field	REFR	As per standard		Lead	
4	01	01	02	xx	UMID Audio	Unique Material Identifier for audio essence. Note - the UMID has a 12 byte SMPTE field	REFR	As per standard		Lead	
5	01	01	03	xx	UMID Data	Unique Material Identifier for data essence. Note - the UMID has a 12 byte SMPTE field	REFR	As per standard		Lead	
6	01	01	04	xx	UMID System	Unique Material Identifier for system information. Note - the UMID has a 12 byte SMPTE field	REFR	As per standard		Lead	
7	04	01	x0	xx	International Broadcasting Station ID	Internationally recognised identifiers required by broadcasting organisations	REFR			Note	
8	01	01	01	00	Organisation Class	The broadcasting organisation concerned	REFR	ISO 3166-9		Lead	
9	01	01	03	00	Programme Identifiers	Unique programme identifiers	REFR			Note	
10	01	01	03	01	UPID	Unique Program Identifier (USC-AIS)	REFR	As per standard		Lead	
11	01	01	03	02	UPN	Unique Programme Number (UPN)	REFR	As per standard		Lead	
12	01	01	04	00	Physical Media Identifiers	Physical media identifiers	REFR			Note	
13	01	01	04	01	Tape Identifiers	Tape identifiers	REFR			Note	
14	01	01	04	01	EBCU ID No	EBCU International Broadcast Tape Number	REFR	As per standard		Lead	
15	01	01	11	00	ISO Identifiers	Unique identifier (ISM)	REFR			Note	

FIG. 8

16	01	01	01	00	00	00	00	00	ISAN	ISO Audio Visual No	ISO Audio-Visual Number	RREF	As per standard			Leaf
17	01	01	01	00	00	00	00	00	ISBN	ISO Book No	ISO Book Number	RREF	As per standard			Leaf
18	01	01	01	00	00	00	00	00	ISSN	ISO Serial No	ISO Serial Number	RREF	As per standard			Leaf
19	01	01	01	00	00	00	00	00	ISWC	ISO Musical Work Record	ISO Musical Work Code	RREF	As per standard			Leaf
20	01	01	01	00	00	00	00	00	ISMIR	ISO Printed Music No	ISO Printed Music Number	RREF	As per standard			Leaf
21	01	01	01	00	00	00	00	00	ISCI	ISO Commercial No	ISO Commercial Identifier	RREF	As per standard			Leaf
22	01	01	01	00	00	00	00	00	ISRC	ISO Recording Code	ISO Recording Code	RREF	As per standard			Leaf
23	01	01	01	00	00	00	00	00	ISRN	ISO Report No	ISO Report Number	RREF	As per standard			Leaf
24	01	01	01	00	00	00	00	00	ISBD	ISO Term Synopsis	ISO Bibliographic Descriptor	RREF	As per standard			Leaf
25	01	01	01	00	00	00	00	00	ISTC	ISO Technical Work Code	ISO Technical Work Code	RREF	As per standard			Leaf
26	01	01	01	00	00	00	00	00	DOI	Digital Object No	Digital Object Identifier	RREF	As per standard			Leaf
27	01	01	01	00	00	00	00	00	Compound IDs	Compound ID	Compound Identifiers	RREF				Note
28	01	01	01	00	00	00	00	00	SICI	Serial Item and Contribution ID	Serial Item and Contribution Identifier	RREF	As per standard			Leaf
29	01	01	01	00	00	00	00	00	EBCI	Book Item and Component ID	Book Item and Component Identifier	RREF	As per standard			Leaf
30	01	01	01	00	00	00	00	00	AACI	Audio-Visual Item and Component ID	Audio-Visual Item and Component Identifier	RREF	As per standard			Leaf
31	01	01	01	00	00	00	00	00	PPI	Publisher ID	Publisher Item Identifier	RREF	As per standard			Leaf
32	01	01	01	00	00	00	00	00	Object identifiers	Same as 68	Object identifiers	RREF				Note
33	01	01	01	00	00	00	00	00	GMD	Internet Globally Unique ID	The Internet Engineering Task Force 16 byte Globally Unique Identifier	RREF	As per standard			Leaf

FIG. 9

43	01	02	01	01	02	00	00	00	00	URL String	Unicode URL String	Contains a Unicode URL String	URI	Unicode String	Variable	Leaf	WFS 32
50	01	02	01	02	00	00	00	00	00	PURL	Persistent URL	Persistent Universal Resource Locator	URI	ISO 7418 char string	127 bytes max	Leaf	
51	01	02	01	03	00	00	00	00	00	URN	Resource Name	Unique Resource Name	URI	ISO 7418 char string	127 bytes max	Leaf	
52	01	02	02	00	00	00	00	00	00	Media Locators	Media Locator	Location for a digital media, data, metadata file etc	URI			Node	
53	01	03	01	00	00	00	00	00	00	Local Identifiers	Local ID	Identifier unique to the local context	URI			Node	
54	01	03	01	00	00	00	00	00	00	Administrative Identifiers	Administration ID	Identifier relating to business and administration	URI			Node	
55	01	03	01	01	01	00	00	00	00	Transmission Identifier	Transmission ID	Identifier for transmission control	URI	ISO 7418 char string	32 chars max	Leaf	
56	01	03	01	01	02	00	00	00	00	Archive Identifier	Archive ID	Identifier for archival purposes	URI	ISO 7418 char string	32 chars max	Leaf	
57	01	03	01	01	03	00	00	00	00	Item ID	Item ID	Identifier of a content item	URI	ISO 7418 char string	32 chars max	Leaf	
58	01	03	01	01	04	00	00	00	00	Accounting Reference	Reference No for Accounting Purposes	Reference number for accounting purposes	URI	ISO 7418 char string	32 chars max	Leaf	
59	01	03	01	01	05	00	00	00	00	Traffic	Transmission Billing	Identifier for transmission management and/or billing	URI	ISO 7418 char string	32 chars max	Leaf	
60	01	03	01	02	00	00	00	00	00	Physical Media Identifiers	Same as 13	Organisationally given identifiers for physical media	URI			Node	
61	01	03	01	02	01	00	00	00	00	Film Codes	Film Code	Organisationally given identifiers for film	URI			Node	
62	01	03	01	02	01	01	00	00	00	Serialized number	Reel No	An organisationally given number for a film reel or roll	URI	ISO 7418 char string	32 chars max	Leaf	
63	01	03	01	02	02	00	00	00	00	Tape Identifiers	Tape ID	Organisationally given identifiers for tape	URI			Node	
64	01	03	01	02	02	01	00	00	00	Tape number	Tape No	An organisationally given number for a tape	URI	ISO 7418 char string	32 chars max	Leaf	
65	01	03	02	00	00	00	00	00	00	Object Identifiers	Object ID	Object identifier	URI			Node	
66	01	03	02	01	00	00	00	00	00	UUID	Locally Unique ID	A 4 byte locally unique ID	URI	UUID	4 bytes	Leaf	

Line #	SubTE Label										Data Element Name	Japanese Names	Data Element Definition	Type	Value Length	Value Range	Structure	Defining Document
	01	02	03	04	05	06	07	08	09	10								
67	01	02	03	04	05	06	07	08	09	10	Shot ID	Shot ID	Specifies an identifier used to identify the shot.	REF	4 bytes		Leaf	WVS-52
68	01	02	03	04	05	06	07	08	09	10	Object Text ID	Object Text ID	Identifies the object by text ID.	REF			Node	
69	01	02	03	04	05	06	07	08	09	10	Movie Name	Movie Name	Identifies the movie by name.	REF	variable		Leaf	WVS-52
70	01	02	03	04	05	06	07	08	09	10	Shot Name	Shot Name	Identifies the shot by name.	REF	variable		Leaf	WVS-52
71	01	02	03	04	05	06	07	08	09	10	Definition Object Name	Definition Object Name	Specifies name of definition object.	REF	variable		Leaf	WVS-52
72	01	02	03	04	05	06	07	08	09	10	Local Locators	Local Locators	Local location information for taking metadata together.	REF			Node	
73	01	02	03	04	05	06	07	08	09	10	Local Media Locators	Local Media Locators	Locators for a digital media, data, metadata file etc.	REF			Node	
74	01	02	03	04	05	06	07	08	09	10	Local File Path	Local File Path	The path to a digital media, data, metadata file etc.	REF	127 bytes max		Leaf	
75	01	02	03	04	05	06	07	08	09	10	Film Locators	Film Locators	Location information for film.	REF			Node	
76	01	02	03	04	05	06	07	08	09	10	Edge Code	Edge Code	The edge code on the film of the frame.	REF	32 chars max		Leaf	
77	01	02	03	04	05	06	07	08	09	10	Frame Code	Frame Code	Unique frame number for film.	REF	32 chars max		Leaf	
78	01	02	03	04	05	06	07	08	09	10	Key Code	Key Code	Machine readable version of Frame Code.	REF	4 bytes		Leaf	
79	01	02	03	04	05	06	07	08	09	10	Link No	Link No	Link number.	REF	32 chars max		Leaf	
80	01	02	03	04	05	06	07	08	09	10	EdgeCode_Start	Code At The Beginning of The Segment	Specifies the edge code at the beginning of the segment.	REF	4 bytes		Leaf	WVS-52
81	01	02	03	04	05	06	07	08	09	10	Proxy Locators	Proxy Locators	Local archival location information for key frame, key sounds, key text etc.	REF			Node	

FIG.10

62	01	04	10	00	00	00	00	00	Key Text	Proxy Key Text	Local archival location information for key text	REF	ISO 7-bit char string	12 bytes max	Leaf
63	01	04	10	00	00	00	00	00	Key Frame	Proxy Key Frame	Local archival location information for key frames	REF	ISO 7-bit char string	12 bytes max	Leaf
64	01	04	10	00	00	00	00	00	Key Sound	Proxy Sound	Local archival location information for keys sounds	REF	ISO 7-bit char string	12 bytes max	Leaf
65	01	04	10	00	00	00	00	00	Key data or program	Key Data	Local archival location information for key data or program	REF	ISO 7-bit char string	12 bytes max	Leaf
66	01	04	11	00	00	00	00	00	Free-form, human readable header	Human Writing	Local header in two sections .	REF			Node
67	01	04	11	00	00	00	00	00	Text/Locator Name	Human Writing Name	Contains a human readable Unicode text header	REF	Unicode String	variable	Leaf
68	01	05	06	00	00	00	00	00	Titles	Title	Titling metadata relating to productions	REF			Node
69	01	05	01	00	00	00	00	00	Title kind	Title Kind	(Kind of titr, i.e. project, series, item, programme, ending, original, item, episode, element, scene, shot etc)	REF	ISO 7-bit char string	12 bytes max	Leaf
70	01	05	01	00	00	00	00	00	Main file	Main Title	The main title	REF	ISO 7-bit char string	12 bytes max	Leaf
71	01	05	02	00	00	00	00	00	Secondary file	Secondary Title	The secondary file	REF	ISO 7-bit char string	12 bytes max	Leaf
72	01	05	03	00	00	00	00	00	Series number	Series No	The alphanumeric series number	REF	ISO 7-bit char string	32 chars max	Leaf
73	01	05	04	00	00	00	00	00	Episode Number	Episode No	The alphanumeric episode number	REF	ISO 7-bit char string	32 chars max	Leaf
74	01	05	05	00	00	00	00	00	Scene number	Scene No	The alphanumeric scene number	REF	ISO 7-bit char string	32 chars max	Leaf
75	01	05	06	00	00	00	00	00	Title Number	Title No	Title number of the instance of the shot	REF	Unicode16	2 bytes	Leaf
76	01	10	09	00	00	00	00	00	Unique IPT identifiers	Owner	Unique IDs allocated by IP Rights organizations	REF			Node
77	01	10	01	00	00	00	00	00	IPI (SUBSANCE)Q	Owner by CSSAC	P Identifiers allocated by CSSC	REF			Node
78	01	10	01	00	00	00	00	00	Natural Person / legal entity	Natural Person of Legal Entity ID	Natural person or legal entity ID in the International Profiles system	REF	As per standard		Leaf
79	01	10	02	00	00	00	00	00	AGSCOMPIPA	ID by AGSCOA	Unique Identifiers allocated by AGENOA	REF			Node

Line No.	SMPTE Label										Data Element Name	Japanese Names	Data Element Definition	Unit	Value Range	Valid Length	Data Type	Valid Range	Related Document	Defining Document
	1	2	3	4	5	6	7	8	9	10										
100	01	10	02	01	00	00	00	00	00	00	AGICOA ID	AGICOA ID	The AGICOA ID.	REF	As per standard			Lead		
101	02	00	00	00	00	00	00	00	00	00	Class 2 Administration	Class 2 Administration	Class 2 is reserved for administrators and businesses related metadata	REF				Node		
102	02	01	00	00	00	00	00	00	00	00	Supplier	Supplier	Details of the content supplying organization	REF				Node		
103	02	01	01	00	00	00	00	00	00	00	Source Organization	Supplying Organization	The name of the content supplying organization	REF	ISO 7418 char string	127 bytes max		Lead		
104	02	01	02	00	00	00	00	00	00	00	Supply contract number	Contract ID	The alphanumeric number for the contract for the supply of content	REF	ISO 7418 char string	32 chars max		Lead		
105	02	01	03	00	00	00	00	00	00	00	Original Producer Name	Original Content Producer	The name of the original content producer	REF	ISO 7418 char string	127 bytes max		Lead		
106	02	02	01	02	00	00	00	00	00	00	Product	Product	Abstract information about the media product	REF				Node		
107	02	02	01	02	01	00	00	00	00	00	Total number of Episodes in a Series	Total Number of Episodes	Total number of Episodes in Series	REF	Int 6	2 bytes		Lead		
108	02	05	00	00	00	00	00	00	00	00	Rights	Rights	Rights metadata	REF				Node		
109	02	05	01	00	00	00	00	00	00	00	Copyright	Copyright	Copyright metadata	REF				Node		
110	02	05	01	01	00	00	00	00	00	00	Copyright Status	Evaluation of Copyright Status	Execution evaluation of copyright status	REF	ISO 7418 char string	127 bytes max		Lead		
111	02	05	01	02	00	00	00	00	00	00	Copyright Owner	Copyright Owner	The name of the person/organization who owns the copyright	REF	ISO 7418 char string	127 bytes max		Lead		
112	02	05	02	00	00	00	00	00	00	00	Intellectual Property Rights	Intellectual Property Rights	Intellectual property rights metadata other than copyright	REF				Node		
113	02	05	02	01	00	00	00	00	00	00	IP Type	Type of Intellectual Property Rights	A definition of what the IP is.	REF	ISO 7418 char string	32 bytes max		Lead		
114	02	05	02	02	00	00	00	00	00	00	IP Right	Definition of Intellectual Property Rights	A definition of what use can be made of an IP	REF	ISO 7418 char string	32 bytes max		Lead		

FIG.11

115	02	05	02	03	00	00	00	00	00	00	Legal Representative	A person or entity is authorized/legally responsible can be related	REF			Node
116	02	05	02	03	01	00	00	00	00	00	Owner	A definition of who or what entity can exercise an IP right	REF	ISO 7-bit char string	127 bytes max	Leaf
117	02	05	02	03	02	00	00	00	00	00	Entity That Manages The Rights	Entity that manages the rights for access to the intellectual	REF	ISO 7-bit char string	127 bytes max	Leaf
118	02	05	02	03	03	00	00	00	00	00	Who or What Entity Has An Interest	A definition of who or what entity has an interest the right being exercised	REF	ISO 7-bit char string	127 bytes max	Leaf
119	02	05	02	04	00	00	00	00	00	00	IP Auxiliary Information	A definition of what options can be exercised within the framework of using an IP right	REF			Node
120	02	05	02	04	01	00	00	00	00	00	Maximum Number of Usages or Repetitions	Maximum number of usages or repetitions	REF	uint6	2 bytes	Leaf
121	02	05	02	04	02	00	00	00	00	00	License Options	Options for prolongation or renewal of license	REF	ISO 7-bit char string	127 bytes max	Leaf
122	02	05	02	00	00	00	00	00	00	00	Financial Information	Details of payments, costs, income money and other considerations	REF			Node
123	02	05	02	01	00	00	00	00	00	00	Currency	The currency of the transaction	REF			Type Node
124	02	05	02	01	00	00	00	00	00	00	Same as 124	The currency of the transaction	REF	ISO 7-bit char	4 chars max See bytes dictionary	Leaf
125	02	05	02	00	00	00	00	00	00	00	Payment and Costing	Payments and costing information	REF			Node
126	02	05	02	01	00	00	00	00	00	00	Royalty Financial Information	Royalty payment and other information	REF	ISO 7-bit char string	127 bytes max	Leaf
127	02	05	02	03	00	00	00	00	00	00	Income Information	Income information	REF			Node
128	02	05	02	01	00	00	00	00	00	00	Royalty Financial Information	Royalty income and other information	REF	ISO 7-bit char string	127 bytes max	Leaf
129	02	07	00	00	00	00	00	00	00	00	Permitted Access	Details of permitted access to the media product	REF			Node
130	02	07	01	00	00	00	00	00	00	00	Restrictions on Use	Identifies the type or level of restriction applied to the media product	REF	ISO 7-bit char string	32 bytes max	Leaf
131	02	08	00	00	00	00	00	00	00	00	Security	Content encryption/decryption information	REF			Node
132	02	08	01	00	00	00	00	00	00	00	Degree of Technical Access	Details of permitted access to the technical system or platform	REF			Node

Code	Symbol	Japanese Name	Data Element Name	Japanese Names	Data Element Definition	Type	Value Length	Value Range	Node/Leaf	Defining Document
132	02 08 01 01 00 00 00 00	Username	Username	User Name	A username in a domain	REF			Type Node	
134	02 08 01 01 01 00 00 00	Username	Username	User Name	A username in a domain	REF ISO 7bit char	16 chars max		Leaf	
135	02 08 01 02 00 00 00 00	Password	Password	Password	An individual password for access to the system	REF			Type Node	
136	02 08 01 02 01 00 00 00	Password	Password	Password	An individual password for access to the system	REF ISO 7bit char	16 chars max		Leaf	
137	02 08 05 00 00 00 00 00	Film	Film	Movie Film	Content encryption description information specifically applying to the movie industry	REF			Node	
138	02 08 05 01 00 00 00 00	Scrambling key ind	Scrambling key ind	Scrambling Key Kind	The programme description key type	REF			Type Node	
139	02 08 05 01 01 00 00 00	Scrambling key ind	Scrambling key ind	Scrambling Key Kind	The programme description key type	REF ISO 7bit char	4 chars max See type dictionary		Leaf	
140	02 08 05 02 00 00 00 00	Scrambling key value	Scrambling key value	Scrambling Key Value	The programme description key value	REF List	64 bytes max		Leaf	
141	02 10 00 00 00 00 00 00	Publication Outlet	Publication Outlet	Publication Outlet	The content publication outlet - eg Broadcast, Internet etc	REF			Node	
142	02 10 01 00 00 00 00 00	Broadcast	Broadcast	Broadcast Outlet Information	Broadcast Outlet Information	REF			Node	
143	02 10 01 01 00 00 00 00	Broadcaster	Broadcaster	Broadcast	The broadcasting organisation	REF			Node	
144	02 10 01 01 01 00 00 00	Name	Name	Name	Name of the broadcasting organisation	REF ISO 7bit char string	32 bytes max		Leaf	
145	02 10 01 01 02 00 00 00	Channel	Channel	Channel	Broadcast channel	REF ISO 7bit char string	32 bytes max		Leaf	
146	02 10 01 01 03 00 00 00	Transmission Medium	Transmission Medium	Transmission Medium	Transmission medium (e.g., satellite, cable, terrestrial...)	REF ISO 7bit char string	32 bytes max		Leaf	
147	02 10 01 01 04 00 00 00	Broadcast Region	Broadcast Region	Broadcast Region	Target region of broadcast	REF ISO 7bit char string	32 bytes max		Leaf	

FIG.12

148	02	20	00	00	00	00	00	00	00	00	Broadcast and Repeat Statistics	Business details concerning the production	REF			Notes
149	02	20	01	00	00	00	00	00	00	00	First Broadcast Flag	First broadcast of the product	REF	Boolean	1 byte	ISO 15924 or IETF (IRULE)
150	02	20	02	00	00	00	00	00	00	00	Repeat Number	Information about the repeat status when not a first broadcast	REF			Notes
151	02	20	02	01	00	00	00	00	00	00	Number of The Current Repeat	The number of the current repeat	REF	UInt16	2 bytes	Lead
152	02	20	02	02	00	00	00	00	00	00	Number of The Previous Repeat	The number of the previous repeat	REF	UInt16	2 bytes	Lead
153	02	20	03	00	00	00	00	00	00	00	Ratings	Information about audience ratings and indices	REF			Notes
154	02	20	03	01	00	00	00	00	00	00	Audience Rating	Audience rating on number of viewers	REF	UInt32	4 bytes	Lead
155	02	20	03	02	00	00	00	00	00	00	Audience Reach	The audience reach of the production	REF	UInt32	4 bytes	Lead
156	02	20	03	03	00	00	00	00	00	00	Other Ratings	Other ratings	REF	UInt32	4 bytes	Lead
157	02	20	04	00	00	00	00	00	00	00	Participating Parties	Details of all parties, contributing to or taking part in the production - staff, contributors, and including those receiving Credits etc	REF			Notes
158	02	20	01	00	00	00	00	00	00	00	Representative	Details of persons contributing to or taking part in the production	REF			Notes
159	02	20	04	01	00	00	00	00	00	00	Nature of Person (Group or Individuals)	Group, Individual etc	REF			Notes
160	02	20	04	02	00	00	00	00	00	00	Talent, Staff, etc	Details of Performing talent, Non performing talent, Production Staff, Technical staff, Specialist etc	REF			Notes
161	02	20	04	02	01	00	00	00	00	00	Talent, Staff, etc	Performing talent, Non performing talent, Production Staff, Technical staff, Specialist etc	REF	ISO 15924 character set	32 bytes max	Lead
162	02	20	01	03	00	00	00	00	00	00	Support and Administration	Details of support and administrative staff or contributors - business management, resource planning, archiving etc	REF			Notes
163	02	20	01	03	01	00	00	00	00	00	Support/Administration Staff	Cataloguing staff, Source staff etc	REF	ISO 15924 character set	32 bytes max	Lead
164	02	20	02	00	00	00	00	00	00	00	Organisations and Public Bodies	Details of Organisations and Public Bodies contributing to or taking part in the production	REF			Notes
165	02	20	02	01	00	00	00	00	00	00	Kind of Organisation or Public Body	United company, government department etc	REF	ISO 15924 character set	32 bytes max	Lead

Code	Label	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1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181	02	30	05	03	01	04	00	00	Third Given Name	The first given name for an individual	REF	ISO 7-bit char string	32 bytes max	Leaf
182	02	30	05	03	02	00	00	00	Group Name	Name information for groups	REF			Node
183	02	30	06	03	02	01	00	00	Main Name	The main name by which the group is known	REF	ISO 7-bit char string	32 bytes max	Leaf
184	02	30	06	03	02	02	00	00	Supplementary Name	Supplementary naming information for a group	REF	ISO 7-bit char string	32 bytes max	Leaf
185	02	30	05	03	03	00	00	00	Organisation Name	Name information for organisations	REF			Node
186	02	30	05	03	03	01	00	00	Main Name	The main name by which an organisation is known	REF	ISO 7-bit char string	32 bytes max	Leaf
187	02	30	06	03	03	02	00	00	Supplementary Organisational Name	Supplementary naming information for an organisation	REF	ISO 7-bit char string	32 bytes max	Leaf
188	03	00	00	00	00	00	00	00	INTERPRETIVE	Class 3 is reserved for information on interpreting the data	REF			Node
189	03	01	00	00	00	00	00	00	Fundamental	Fundamental defining information	REF			Node
190	03	01	01	00	00	00	00	00	Countries	Defining information about Countries	REF			Node
191	03	01	01	01	00	00	00	00	ISO 3166 Country Code	ISO country codes	REF			Type Node
192	03	01	01	01	01	00	00	00	ISO 3166 Country Code	ISO country codes	REF	ISO 7-bit char	4 char max See types dictionary	Leaf
193	03	01	01	02	00	00	00	00	ISO 3166 Language Code	The code that represents a language. Defines Language facilities in an authority on domain values	REF			Type Node
194	03	01	01	02	01	00	00	00	ISO 3166 Language Code	The code that represents a language. Defines Language facilities in an authority on domain values	REF	ISO 7-bit char	4 char max See types dictionary	Leaf
195	03	01	02	00	00	00	00	00	Data Interpretations	Defining information about data interpretation	REF			Node
196	03	01	02	00	00	00	00	00	Operating system Interpretations	4-byte code for definition of common operating systems	REF	Unassigned byte	1 byte	Leaf
197	03	01	00	00	00	00	00	00	Fundamental 4 Definitions ?	Information about the four basic fields of a record: primary key	REF			Node
198	03	01	03	01	00	00	00	00	Length	Descriptive information about length	REF			Node

Line #	SMPLE Label				Data Element Name	Japanese Names	Data Element Definition	Line #	Types	Value Length	Value Range	Model/Leaf	Defining Document
	1	2	3	4									
100	03	01	03	01	01	00	00	Length System	Length System			Type Node	
200	03	01	03	01	01	01	00	Length System	Length System			Leaf	
201	03	01	03	01	02	00	00	Length Units	Length Units			Type Node	
302	03	01	03	01	02	01	00	Length Units	Length Units			Leaf	
260	03	01	03	02	00	00	00	Time	Time			Type Node	
204	03	01	03	02	01	00	00	Time system	Time system			Leaf	
205	03	01	03	02	01	01	00	Time system	Time system			Leaf	
206	03	01	03	02	02	00	00	Time Units	Time Units			Type Node	
307	03	01	03	02	01	00	00	Time Units	Time Units			Leaf	
208	03	01	03	02	02	00	00	Mass	Mass			Type Node	
309	03	01	03	04	02	00	00	Energy	Energy			Leaf	
210	03	02	00	00	00	00	00	Descriptive - Human Assigned	Human Assigned ?			Type Node	
211	03	02	01	00	00	00	00	Categorization	Categorization			Leaf	
212	03	02	01	02	00	00	00	Content Classification	Content Classification			Type Node	
213	03	02	01	02	01	00	00	Type	Type			Leaf	

FIG. 14

214	03	02	01	02	00	00	00	00	Genre	Programme genre (e.g., entertainment, current affairs magazine, kids' television, ...) (Coded as Excerpt 2.4)	REF	ISO 1418 char string	12 bytes max	Type Node
215	03	02	01	02	00	00	00	00	Target Audience	Target audience (e.g., children, 17 to 22, elderly, ...)	REF	ISO 1418 char string	12 bytes max	Type Node
216	03	02	01	03	00	00	00	00	Cataloguing and Indexing	Archival analysis of the essence metadata	REF			Node
217	03	02	01	03	01	00	00	00	Catalogue History	Archival metadata concerning the archival analysis metadata	REF			Node
218	03	02	01	03	01	01	00	00	Status of The Metadata Set	The current status of the metadata set	REF			Type Node
219	03	02	01	03	01	01	00	00	Status of The Metadata Set	The current status of the metadata set	REF	ISO 1418 char string	12 bytes max	Leaf
220	03	02	01	03	02	00	00	00	Cataloguing, Indexing or Thesaurus system used	The particular Cataloguing, Indexing or Thesaurus system used	REF	ISO 1418 char string	12 bytes max	Type Node
221	03	02	01	03	03	00	00	00	Theme	This category of the Theme of the content	REF	ISO 1418 char string	12 bytes max	Type Node
222	03	02	01	03	04	00	00	00	Genre	The category of the Genre of the content	REF	ISO 1418 char string	12 bytes max	Type Node
223	03	02	01	03	05	00	00	00	Subject Code	Subject Code	REF	ISO 1418 char string	12 bytes max	Type Node
224	03	02	01	03	06	00	00	00	Keywords	Words or phrases summarising an aspect of the data set	REF	ISO 1418 char string	12 bytes max	Leaf
225	03	02	01	03	07	00	00	00	Key Frames	Reference to a key frame of video in the data set	REF	ISO 1418 char string	12 bytes max	Leaf
226	03	02	01	03	08	00	00	00	Key Sounds	Reference to a key sound in the data set	REF	ISO 1418 char string	12 bytes max	Leaf
227	03	02	01	03	09	00	00	00	Key Data	Reference to a key piece of data or programme in the data set	REF	ISO 1418 char string	12 bytes max	Leaf
228	03	02	01	05	00	00	00	00	Textual Description	A textual characterisation of the data set	REF			Node
229	03	02	01	06	00	00	00	00	Abstract	A brief summary of the data set	REF	ISO 1418 char string	1024 bytes max	Leaf
230	03	02	01	06	02	00	00	00	Purpose	A summary of the functions with which the data set was developed	REF	ISO 1418 char string	12 bytes max	Leaf
231	03	02	01	06	03	00	00	00	Description	A textual description	REF	ISO 1418 char string	12 bytes max	Leaf

L 5 S U P E R E L E M E N T					Data Element Name	Japanese Names	Data Element Definition	Type	Value Length	Value Range	Node/Leaf	Defining Document
	01	02	03	04								
232	03	02	01	05	00	Color descriptor	Color information	eg. Black and white, tinted etc	32 bytes		Type Node	
233	03	02	01	05	00	Format descriptor	Format information	eg. Labeling, Flattening etc	32 bytes		Type Node	
234	03	02	01	07	00	Structure	Structure	The descriptive structure of the archival content analysis of the content			Node	
235	03	02	01	07	00	Structure level	Structure Kind	eg. Background, action, sound texture etc	32 bytes		Type Node	
236	03	02	01	08	00	Supplemental Information	Supplemental Information	Other descriptive information about the data set.			Node	
237	03	02	02	00	00	Assessments	Assessments	Assessments of cultural, technical etc aspects of the content and contribution to it			Node	
238	03	02	02	01	00	Awards	Awards	Awards relating to cultural, technical etc aspects of the content and contribution to it			Node	
239	03	02	02	01	00	Individual	Individual	Awards granted to individuals	32 bytes		Leaf	
240	03	02	02	01	00	Programme	Programme	Awards granted to programme	32 bytes		Leaf	
241	03	02	02	02	00	Qualitative Values	Qualitative Values	Assessed values relating to cultural, technical etc aspects of the content and contribution to it			Node	
242	03	02	02	02	00	Assessed Values	Assessed Values	Assessment of the programme quality	32 bytes		Leaf	
243	03	02	02	02	00	Content Value	Content Value	Assessment of the content value	32 bytes		Leaf	
244	03	02	02	02	00	Cultural Quality	Cultural Quality	Assessment of the cultural quality	32 bytes		Leaf	
245	03	02	02	02	00	Aesthetic Value	Aesthetic Value	Assessment of the aesthetic quality	32 bytes		Leaf	
246	03	02	02	02	00	Historic Value	Historic Value	Assessment of the historic value	32 bytes		Leaf	

FIG.15

247	03	02	02	02	00	00	00	00	00	00	Technical Value	Technical Value	Assessment of the technical value	REFER	ISO 781 char string	32 bytes max	Leaf
248	03	02	02	02	00	00	00	00	00	00	Other Values	Other Values	Assessment of other relevant qualities	REFER	ISO 781 char string	32 bytes max	Leaf
249	03	03	00	00	00	00	00	00	00	00	Descriptors (Machine Assigned or Compiled)	Descriptors	Description (Machine Assigned or Compiled) relating to analysis of the content	REFER			Note
250	03	03	01	00	00	00	00	00	00	00	Categorisation	Categorisation	Analytical categorisation of the content	REFER			Note
251	03	03	01	01	00	00	00	00	00	00	Content Classification	Content Classification	Content classification	REFER			Note
252	03	03	01	02	00	00	00	00	00	00	Cataloguing and Indexing	Same as 217	Archival analysis of the essence metadata	REFER			Note
253	03	03	01	02	01	00	00	00	00	00	Catalogue History	Same as 218	Archival metadata concerning the archival analysis metadata	REFER			Note
254	03	03	01	02	01	01	00	00	00	00	Status of Data Set	Same as 219	The current status of the metadata set	REFER	ISO 781 char string	32 bytes max	Leaf
255	03	03	01	02	02	00	00	00	00	00	Cataloguing, Indexing or Thesaurus system used	Same as 221	The particular Cataloguing, Indexing or Thesaurus system used	REFER	ISO 781 char string	32 bytes max	Leaf
256	03	03	01	02	03	00	00	00	00	00	Keywords	Same as 225	Words or phrases surrounding an aspect of the data set	REFER	ISO 781 char string	32 bytes max	Leaf
257	03	03	01	02	07	00	00	00	00	00	Key Frames	Same as 226	Reference to a key frame of video in the data set	REFER	ISO 781 char string	32 bytes max	Leaf
258	03	03	01	02	08	00	00	00	00	00	Key Sounds	Same as 227	Reference to a key sound in the data set	REFER	ISO 781 char string	32 bytes max	Leaf
259	03	03	01	02	03	00	00	00	00	00	Key data	Same as 228	Reference to a key piece of data or program in the data set	REFER	ISO 781 char string	32 bytes max	Leaf
260	03	03	01	06	00	00	00	00	00	00	Technical Description	Same as 229	A textual description of the data set	REFER			Note
261	03	03	01	07	00	00	00	00	00	00	Stratum	Same as 235	The descriptive status of the archival content analysis of the content	REFER			Note
262	03	03	01	07	01	00	00	00	00	00	Stratum kind	Same as 236	eg. Background, action, visual features etc	REFER	ISO 781 char string	32 bytes max	Leaf
263	04	00	00	00	00	00	00	00	00	00	PARAMETRIC	Class 4 Parameters	Class 4 is reserved for parametric and configuration metadata	REFER			Note
264	04	01	00	00	00	00	00	00	00	00	Video Essence Encoding Characteristics	Video Encoding Parameters	Operating characteristics of the device creating the essence	REFER			Note

FIG. 16

210	04	01	01	04	01	00	00	00	00	Total Lines Per Frame	Specifies the number of lines in a field frame in the video encoding system.	REF	16416	2 bytes		Leaf
211	04	01	01	04	01	00	00	00	00	Active Lines Per Frame	Specifies the total number of lines (rows) in the active portion of a frame in the video encoding system.	REF	16416	2 bytes		Leaf
212	04	01	01	04	01	00	00	00	00	Leading Lines	Specifies number of blank lines before image	REF	16422	4 bytes		Leaf
213	04	01	01	04	01	00	00	00	00	Trailing Lines	Specifies number of blank lines after image	REF	16422	4 bytes		Leaf
214	04	01	01	04	02	00	00	00	00	Horizontal and Vertical Dimensions	Specifies information about the horizontal and vertical dimensions of an image.	REF				Node
215	04	01	01	04	02	01	01	00	00	Aspect Ratio	Specifies the horizontal to vertical aspect ratio of the image as it is to be displayed.	REF				Type Node
216	04	01	01	04	02	01	01	01	00	Image Aspect Ratio	Specifies the image aspect ratio	REF	16422	1 byte		Leaf
217	04	01	01	04	02	01	01	02	00	Same as 207	Specifies the image aspect ratio	REF	16422	1 byte		Leaf
218	04	01	01	04	02	01	02	00	00	Capture Aspect Ratio	Specifies the horizontal to vertical aspect ratio of the image captured at the sensor.	REF	16422	1 byte	See types dictionary	Leaf
219	04	01	01	04	02	02	00	00	00	Stored Height	Specifies height of stored image	REF	16422	4 bytes		Leaf
220	04	01	01	04	02	03	00	00	00	Stored Width	Specifies width of stored image	REF	16422	4 bytes		Leaf
221	04	01	01	04	02	04	00	00	00	Sampled Height	Specifies height of sampled image	REF	16422	4 bytes		Leaf
222	04	01	01	04	02	05	00	00	00	Sampled Width	Specifies width of sampled image	REF	16422	4 bytes		Leaf
223	04	01	01	04	02	06	00	00	00	Sampled X Offset	Specifies X offset of sampled image	REF	16422	4 bytes		Leaf
224	04	01	01	04	02	07	00	00	00	Sampled Y Offset	Specifies Y offset of sampled image	REF	16422	4 bytes		Leaf
225	04	01	01	04	02	08	00	00	00	Display Height	Specifies height of displayed image	REF	16422	4 bytes		Leaf
226	04	01	01	04	02	09	00	00	00	Display Width	Specifies width of displayed image	REF	16422	4 bytes		Leaf
227	04	01	01	04	02	0A	00	00	00	Display X Offset	Specifies X offset of displayed image	REF	16422	4 bytes		Leaf

Line #	SAITE Label	Data Element Name	Japanese Name	Data Element Definition	Type	Value Length	Value Range	Model Label	Defining Document
298	04 01 01 04 02 05 00	Display Y Offset	Display Y Offset	Specifies Y offset of displayed image	REF	4 bytes		Leaf	WVS.32
299	04 01 01 05 00 00 00	Video Coding Characteristics	Video Original Signal Characteristics	Information about the original analog coding of the essence	REF			Node	
300	04 01 01 05 01 00 00	Analog Video System	Analog Video Characteristics	PAL, NTSC, etc.	REF	4 char max	See types dictionary	Leaf	
301	04 01 01 05 00 00 00	Luminance Sample Rate	Luminance Sample Rate	The luminance sample rate	REF	1 byte	See types dictionary	Leaf	
302	04 01 01 05 04 00 00	Active Samples per Line	Active Samples Per Line	Total number of samples (columns) in the active portion of a line in the video pixel matrix.	REF	2 bytes		Leaf	
303	04 01 01 05 05 00 00	Total Samples per Line	Total Samples Per Line	Specifies the number of samples in a total line in the video pixel matrix.	REF	2 bytes		Leaf	
304	04 01 01 05 06 00 00	Bits Per Pixel	Bits Per Pixel	The maximum number of significant bits for the value in each band of each pixel without compression.	REF	1 byte		Leaf	
305	04 01 01 05 07 00 00	Sampling Information	Sampling Information	Description of the component sampling	REF			Node	
306	04 01 01 05 07 01 00	Sampling Hierarchy Code	Sampling Hierarchy Code	A code that specifies the component sampling hierarchy for the video pixel matrix.	REF	4 char max	See types dictionary	Leaf	
307	04 01 01 05 07 02 00	Horizontal Subsampling	Horizontal Subsampling	Specifies ratio of luminance subsampling to chrominance subsampling in horizontal direction	REF	4 bytes		Leaf	WVS.32
308	04 01 01 05 07 03 00	Color Siting ?	Color Siting ?	Specifies how to compute subsampled chrominance values	REF	2 bytes		Leaf	WVS.32
309	04 01 01 05 08 00 00	Rounding Method Code	Rounding Method Code	Specifies the rounding method that has been applied to the digital samples of the video signal.	REF	4 char max	See types dictionary	Leaf	
310	04 01 01 05 09 00 00	Filtering Code	Filtering Code	Specifies the spectral filtering that has been applied to the digital samples of the video signal.	REF	4 char max	See types dictionary	Leaf	
311	04 01 01 05 10 00 00	Sampling Structure	Sampling Structure	Description of the sampling structure of the video scanning system, such as Progressive and single frame.	REF			Node	
312	04 01 01 05 10 01 00	Sampling Structure Code	Sampling Structure Code	A code that specifies the analog or digital sampling structure for the video scanning system. Eg Progressive	REF	1 byte	See types dictionary	Leaf	

FIG.17

	313	04	01	01	09	10	02	00	00	Frame Layout	Specifies frame layout (interlaced, single frame, full frame, etc.)	REF#	Layout type	2 bytes	Leaf	WZS-32
	314	04	01	01	09	0A	00	00	00	Video Overlay	Specifies relation between zoomed lines and stored fields	REF#	Array of int32	3 bytes	Leaf	WZS-32
	315	04	01	01	05	0B	00	00	00	Alpha Transparency	Specifies whether 0 or the maximum value is transparent	REF#	uint32	4 bytes	Leaf	WZS-32
	316	04	01	01	05	0C	00	00	00	Component Width	Specifies component width in bits	REF#	int32	4 bytes	Leaf	WZS-32
	317	04	01	01	05	0D	00	00	00	Black Reference Level	Specifies digital luminance associated with black	REF#	uint32	4 bytes	Leaf	WZS-32
	318	04	01	01	05	0E	00	00	00	White Reference Level	Specifies digital luminance associated with white	REF#	uint32	4 bytes	Leaf	WZS-32
	319	04	01	01	05	0F	00	00	00	Color Range	Specifies range of storable chrominance values	REF#	uint32	4 bytes	Leaf	WZS-32
	320	04	01	01	05	11	00	00	00	Order of Color Components	Specifies order of components	REF#	RGBALayout		Leaf	WZS-32
	321	04	01	01	05	12	00	00	00	Color Palette	Specifies palette containing colors	REF#	Data/Data	Variable	Leaf	WZS-32
	322	04	01	01	05	13	00	00	00	Palette Layout ?	Specifies layout of components in palette	REF#	RGBALayout		Leaf	WZS-32
	323	04	01	01	05	14	00	00	00	Number of Sample Data in Horizontal Direction of Original Signal	Specifies if the data has the same number of rows in clip throughout	REF#	boolean	1 byte	Leaf	WZS-32
	324	04	01	01	05	15	00	00	00	Number of Stored Contiguous Bytes	Specifies if the data is stored in contiguous bytes	REF#	boolean	1 byte	Leaf	WZS-32
	325	04	01	01	05	16	00	00	00	JPEG Table	Specifies JPEG table used to compress video	REF#	JPEGTableType		Leaf	WZS-32
	326	04	01	01	05	17	00	00	00	TBI Parameters	Contains the TBI format summary data	REF#	Data/Data	variable	Leaf	WZS-32
	327	04	01	01	05	18	00	00	00	MPEG Coding Characteristics	Information about MPEG video coding	REF#				
	328	04	01	01	05	1A	02	00	00	MPEG-2 Coding Characteristics	Information about MPEG video coding	REF#				
	329	04	01	01	05	1B	02	01	00	Field Frame Type Code	Specifies the field or frame type of the source video image for video derived from compressed sources. Eg. 1 B or P	REF#	ISO FieldCode	1 char		
	330	04	01	02	00	00	00	00	00	Film parameters	Information about film	REF#				Note

Line #	Sample Label					Data Element Name	Japanese Names	Data Element Definition	Unit	Type	Value Length	Value Range	Header/Leaf	Defining Document
331	04 01 02 01 00 00 00 00 00 00					Film to Video parameters	Film Video Parameters	Information about transferring film to video	REF				Note	
332	04 01 02 01 00 00 00 00 00 00					Field Dominance	Field Dominance ?	Field one dominant (true)	REF	Boolean	1 byte	00n (FALSE) or FFh (TRUE)	Leaf	
333	04 01 02 01 00 00 00 00 00 00					Frame phase sequence	Frame Phase Sequence	eg. A frame, B frame, C frame	REF	Unsigned Char	1 byte	00 to FF hex	Leaf	
334	04 01 02 02 00 00 00 00 00 00					Film pull-down characteristics	Film Pull-down Characteristics	Film transfer pull-down characteristics	REF				Note	
335	04 01 02 02 00 00 00 00 00 00					Pull-down sequence	Pull-down Sequence	eg. 12, 1:1	REF	Unsigned Char	1 byte	See types dictionary	Leaf	
336	04 01 02 02 00 00 00 00 00 00					Pull-down phase	Pull-down Phase	Redundant field in a 2:1 pull-down sequence	REF	Boolean	1 byte	00n (FALSE) or FFh (TRUE)	Leaf	
337	04 01 02 02 00 00 00 00 00 00					Pull-down kind	Pull-down Kind	Specifies kind of pull-down	REF	Pull-down Kind Type	2 bytes		Leaf	W25.52
338	04 01 02 02 00 00 00 00 00 00					Pull-down direction	Pull-down Direction	Specifies direction of pull-down	REF	Pull-down Direction Type	2 bytes		Leaf	W25.52
339	04 01 02 02 00 00 00 00 00 00					Pull-down phase	Pull-down Phase	Specifies pull-down phase	REF	Phase Frame Type	2 bytes		Leaf	W25.52
340	04 01 02 02 00 00 00 00 00 00					Film frame rates	Film Frame Rates	Frames per second film frame rate	REF				Note	
341	04 01 02 02 00 00 00 00 00 00					Capture film frame rate	24.00 fps	eg. 24.00 fps	REF	Unsigned Char	1 byte	See types dictionary	Leaf	
342	04 01 02 02 00 00 00 00 00 00					Transfer film frame rate	23.976 fps	eg. 23.976 fps	REF	Unsigned Char	1 byte	See types dictionary	Leaf	
343	04 01 02 03 00 00 00 00 00 00					Film descriptor frame rate	Specifies frame rate	Specifies frame rate	REF	Unsigned	4 bytes		Leaf	W25.52
344	04 01 02 04 00 00 00 00 00 00					Film characteristics	Film Characteristics	Frames per second film frame rate	REF				Note	
345	04 01 02 04 00 00 00 00 00 00					Film aperture	Film Aperture Characteristics	eg. super 16, academy	REF	ISO 748 char string	32 bytes max		Leaf	

FIG.18

345	04	01	02	04	02	00	00	00	00	Film Color Process	Film Color Process	This film containing process used. Eg. Print Color, Hand Coloring, Berlin-Köln Color	ISO 7-Mbit char coding	32 bytes max	Leaf
347	04	01	02	04	03	00	00	00	00	Color Format	Edge Code Format	Specifies the edge code format	ISO Type	2 bytes	Leaf
348	04	01	02	04	04	00	00	00	00	Header	Header Text	Specifies the header text on the film	ISO 7-Mbit char coding	variable	Leaf
349	04	01	03	00	00	00	00	00	00	Video and Film Test Parameters	Video and Film Test Parameters	Test information from the original recording	ISO 7-Mbit char coding		Node
350	04	01	03	01	00	00	00	00	00	Video Test Parameters	Video Test Parameters	Video information from the original recording	ISO 7-Mbit char coding		Node
351	04	01	03	01	01	00	00	00	00	Test Parameter	Test Parameter	eg. Starting Bit Error Rate, Maximum BER Tolerance Level, Sharpness Quality Benchmark, Scalar Bandwidth Parameter, Spatial Quality Information, Temporal Quality Information, Matrix Bandwidth Parameter	ISO 7-Mbit char coding	32 bytes max	Leaf
352	04	01	03	02	00	00	00	00	00	Test Result (Real)	Test Result (Real)	The result from the specified test	ISO 7-Mbit char coding	4 bytes	Leaf
353	04	01	03	01	00	00	00	00	00	Test Result (Integer)	Test Result (Integer)	The result from the specified test	ISO 7-Mbit char coding	4 bytes	Leaf
354	04	01	03	02	00	00	00	00	00	Film Test Parameters	Film Test Parameters	Film test information from the original recording	ISO 7-Mbit char coding		Node
355	04	01	03	01	01	00	00	00	00	Test Parameter	Test Parameter	eg. Test frequency response, Tolerance Criteria, Maximum Contrast, Maximum Grain Density, Grain Scale Metric, Lab Film Density, Lab Film Density Referencing, Lab Film Density Referencing Factor	ISO 7-Mbit char coding	32 bytes max	Leaf
356	04	01	03	02	00	00	00	00	00	Test Result (Real)	Test Result (Real)	The result from the specified test	ISO 7-Mbit char coding	4 bytes	Leaf
357	04	01	03	02	00	00	00	00	00	Test Result (Integer)	Test Result (Integer)	The result from the specified test	ISO 7-Mbit char coding	4 bytes	Leaf
358	04	01	04	00	00	00	00	00	00	Video Digital Storage Alignment	Video Digital Storage Alignment		ISO 7-Mbit char coding		Node
359	04	01	04	01	00	00	00	00	00	ImageSegmentFrame	Buffer Size When Storing Frames	Specifies buffer size alignment when storing frames	ISO 7-Mbit char coding	4 bytes	Leaf
360	04	01	04	02	00	00	00	00	00	ImageSegmentFrame	Bytes of FFI Before Start of Field	Specifies bytes of FFI before start of field	ISO 7-Mbit char coding	4 bytes	Leaf
361	04	01	04	03	00	00	00	00	00	ImageSegmentFrame	Bytes of FFI After End of Field	Specifies bytes of FFI after end of field	ISO 7-Mbit char coding	4 bytes	Leaf
362	04	01	04	04	00	00	00	00	00	PaddingBits	Padding Bits	Specifies the number of bits to pad each field	ISO 7-Mbit char coding	2 bytes	Leaf
363	04	02	00	00	00	00	00	00	00	Audio Signal Device Characteristics	Characteristics of Audio Signal Device	Operating characteristics of the devices creating the sequence	ISO 7-Mbit char coding		Node

	SMPTE Label					Data Element Name	Japanese Names	Data Element Definition	Line #	Type	Value Length	Value Range	Model/Lead	Defining Document
361	04 02 01 00 00 00 00	Audio Fundamental Characteristics	Audio Fundamental Characteristics	Fundamental audio characteristics	REFER								Node	
362	04 02 01 01 00 00 00	Audio Source Device	Audio Source Device	Indicates the type of the audio source.	REFER					ISO 7-bit char string	32 bytes max		Leaf	
363	04 02 01 02 00 00 00	Fundamental audio transmission	Fundamental Audio Control	Number of recording channels used; analogue or digital recording device, analog or digital mixing console	REFER								Node	
367	04 02 01 02 01 00 00	Electro-optical foundation	Audio Channel Division	Mono, Dual mono, Stereo A+B, Stereo B+C, Dolby surround, LPCO BC/NBC etc.	REFER					Unsigned Char	1 byte	See types dictionary	Leaf	
368	04 02 01 02 02 00 00	Facing optical	Audio Filtering Characteristics	e.g. Acousty, etc.	REFER					ISO 7-bit char string	32 bytes max		Leaf	
369	04 02 01 02 03 00 00	Audio reference level	Audio Reference Level	Number of (Don't know)	REFER					Unsig	1 byte		Leaf	
370	04 02 01 02 04 00 00	Number of audio channels to mix	Number of Audio Channels in Mix	The number of audio channels in the mix	REFER								Node	
371	04 02 01 02 04 01 00	Mono channels	Number of Mono Channels	The number of mono channels in the mix	REFER	Unsig					1 byte	1 to 255	Leaf	
372	04 02 01 02 04 02 00	Stereo channels	Number of Stereo Channels	The number of stereo channels in the mix	REFER	Unsig					1 byte	1 to 255	Leaf	
373	04 02 01 02 04 03 00	Physical track/channel	Track Number	Identifies the physical track associated with the mix	REFER	Unsig					4 bytes		Leaf	NPS-32
374	04 02 01 02 01 00 00	Film sound source	Audio From Film	Indicates the film sound source	REFER								Node	
375	04 02 01 03 01 00 00	Optical track	Optical Recording	The kind of optical track from which the sound was recovered	REFER					ISO 7-bit char string	32 bytes max		Leaf	
376	04 02 01 03 02 00 00	Magnetic track	Magnetic Recording	The kind of magnetic track from which the sound was recovered	REFER					ISO 7-bit char string	32 bytes max		Leaf	
377	04 02 02 02 00 00 00	Analogous Audio Coding Characteristics	Analogous Audio Characteristics	Information about the original analogous coding of the sources	REFER								Node	
378	04 02 02 03 00 00 00	Analogous system	Analogous System	Pst, Dolly-A etc.	REFER					ISO 7-bit char string	32 bytes max		Leaf	

FIG. 19

329	04	02	03	00	00	00	00	00	00	Digital Audio Sampling Characteristics	Audio Sampling Characteristics	Sampling frequency, reference clock, bits per sample, encoding, other (rectangular, variable PO)	REF			Node
330	04	02	03	01	00	00	00	00	00	Sample rate	Sample Rate	The sample rate	REF	1 byte	See types dictionary	Leaf
331	04	02	03	02	00	00	00	00	00	Reference clock frequency	Clock Frequency	The reference clock frequency in Hz	REF	1 byte	See types dictionary	Leaf
332	04	02	03	03	00	00	00	00	00	Bits per Sample	Bits Per Samples	The maximum number of significant bits for the value without compression.	REF	1 byte		Leaf
333	04	02	03	04	00	00	00	00	00	Rounding law	Rounding Law	The rounding law applied	REF	ISO 7412 char	4 chars max See types dictionary	Leaf
334	04	02	03	05	00	00	00	00	00	Other	Dither	rectangular, variable PO	REF	ISO 7412 char	4 chars max See types dictionary	Leaf
335	04	02	04	00	00	00	00	00	00	Digital Audio Coding Characteristics	Audio Coding Characteristics	Information about the essence digital coding	REF			Node
336	04	02	04	01	00	00	00	00	00	Coding Law	Coding Law	Type of coding (e.g. Law, A-law, M-law) depending G.711, G.722, MPEG1, MPEG2, AAC, etc.	REF	ISO 7412 char	4 chars max See types dictionary	Leaf
337	04	02	04	02	00	00	00	00	00	Layer number	Layer Number	The layer number of the digital coding	REF	1 byte		Leaf
338	04	02	04	03	00	00	00	00	00	Average bit rate	Average Bit Rate	The Average bit rate	REF	4 bytes		Leaf
339	04	02	04	04	00	00	00	00	00	Fixed bit rate	Fixed Bit Rate	Fixed = TRUE, variable = FALSE	REF	Boolean	0th FALSE, 1st (TRUE)	Leaf
340	04	02	07	00	00	00	00	00	00	Audio test parameters	Audio Test Parameters	Audio test parameters from the original recording	REF			Node
341	04	02	07	01	00	00	00	00	00	Signal to noise ratio	SNR	The measured signal to noise ratio of the original recording	REF	4 bytes		Leaf
342	04	02	07	02	00	00	00	00	00	Weighting	Weighting	The weighting used in measurements	REF	ISO 7412 char	4 chars max See types dictionary	Leaf
343	04	02	08	00	00	00	00	00	00	Audio summary information	Audio Summary Information		REF			Node
344	04	02	08	01	00	00	00	00	00	AFC Descriptor Summary	AFC Format Summary	Contains AFC format summary	REF	Variable		Leaf
345	04	02	08	02	00	00	00	00	00	Waveform descriptor summary	Wave Format Summary	Contains the NAME audio format summary data	REF	Variable		Leaf
346	04	03	00	00	00	00	00	00	00	Data Essence Encoding Characteristics	Encoding Method	Operating characteristics of the device creating the data essence.	REF			Node

5 a	6 b	7 c	8 d	9 e	10 f	11 g	12 h	13 i	14 j	15 k	16 l	17 m	18 n	19 o	20 p	21 q	22 r	23 s	24 t	25 u	26 v	27 w	28 x	29 y	30 z	31 aa	32 ab	33 ac	34 ad	35 ae	36 af	37 ag	38 ah	39 ai	40 aj	41 ak	42 al	43 am	44 an	45 ao	46 ap	47 aq	48 ar	49 as	50 at	51 au	52 av	53 aw	54 ax	55 ay	56 az	57 ba	58 bb	59 bc	60 bd	61 be	62 bf	63 bg	64 bh	65 bi	66 bj	67 bk	68 bl	69 bm	70 bn	71 bo	72 bp	73 bq	74 br	75 bs	76 bt	77 bu	78 bv	79 bw	80 bx	81 by	82 bz	83 ca	84 cb	85 cc	86 cd	87 ce	88 cf	89 cg	90 ch	91 ci	92 cj	93 ck	94 cl	95 cm	96 cn	97 co	98 cp	99 cq	100 cr	101 cs	102 ct	103 cu	104 cv	105 cw	106 cx	107 cy	108 cz	109 da	110 db	111 dc	112 dd	113 de	114 df	115 dg	116 dh	117 di	118 dj	119 dk	120 dl	121 dm	122 dn	123 do	124 dp	125 dq	126 dr	127 ds	128 dt	129 du	130 dv	131 dw	132 dx	133 dy	134 dz	135 ea	136 eb	137 ec	138 ed	139 ee	140 ef	141 eg	142 eh	143 ei	144 ej	145 ek	146 el	147 em	148 en	149 eo	150 ep	151 eq	152 er	153 es	154 et	155 eu	156 ev	157 ew	158 ex	159 ey	160 ez	161 fa	162 fb	163 fc	164 fd	165 fe	166 ff	167 fg	168 fh	169 fi	170 fj	171 fk	172 fl	173 fm	174 fn	175 fo	176 fp	177 fq	178 fr	179 fs	180 ft	181 fu	182 fv	183 fw	184 fx	185 fy	186 fz	187 ga	188 gb	189 gc	190 gd	191 ge	192 gf	193 gg	194 gh	195 gi	196 gj	197 gk	198 gl	199 gm	200 gn	201 go	202 gp	203 gq	204 gr	205 gs	206 gt	207 gu	208 gv	209 gw	210 gx	211 gy	212 gz	213 ha	214 hb	215 hc	216 hd	217 he	218 hf	219 hg	220 hh	221 hi	222 hj	223 hk	224 hl	225 hm	226 hn	227 ho	228 hp	229 hq	230 hr	231 hs	232 ht	233 hu	234 hv	235 hw	236 hx	237 hy	238 hz	239 ia	240 ib	241 ic	242 id	243 ie	244 if	245 ig	246 ih	247 ii	248 ij	249 ik	250 il	251 im	252 in	253 io	254 ip	255 iq	256 ir	257 is	258 it	259 iu	260 iv	261 iw	262 ix	263 iy	264 iz	265 ja	266 jb	267 jc	268 jd	269 je	270 jf	271 jg	272 jh	273 ji	274 jj	275 jk	276 jl	277 jm	278 jn	279 jo	280 jp	281 jq	282 jr	283 js	284 jt	285 ju	286 jv	287 jw	288 jx	289 jy	290 jz	291 ka	292 kb	293 kc	294 kd	295 ke	296 kf	297 kg	298 kh	299 ki	300 kj	301 kk	302 kl	303 km	304 kn	305 ko	306 kp	307 kq	308 kr	309 ks	310 kt	311 ku	312 kv	313 kw	314 kx	315 ky	316 kz	317 la	318 lb	319 lc	320 ld	321 le	322 lf	323 lg	324 lh	325 li	326 lj	327 lk	328 ll	329 lm	330 ln	331 lo	332 lp	333 lq	334 lr	335 ls	336 lt	337 lu	338 lv	339 lw	340 lx	341 ly	342 lz	343 ma	344 mb	345 mc	346 md	347 me	348 mf	349 mg	350 mh	351 mi	352 mj	353 mk	354 ml	355 mm	356 mn	357 mo	358 mp	359 mq	360 mr	361 ms	362 mt	363 mu	364 mv	365 mw	366 mx	367 my	368 mz	369 na	370 nb	371 nc	372 nd	373 ne	374 nf	375 ng	376 nh	377 ni	378 nj	379 nk	380 nl	381 nm	382 nn	383 no	384 np	385 nq	386 nr	387 ns	388 nt	389 nu	390 nv	391 nw	392 nx	393 ny	394 nz	395 oa	396 ob	397 oc	398 od	399 oe	400 of	401 og	402 oh	403 oi	404 oj	405 ok	406 ol	407 om	408 on	409 oo	410 op	411 oq	412 or	413 os	414 ot	415 ou	416 ov	417 ow	418 ox	419 oy	420 oz	421 pa	422 pb	423 pc	424 pd	425 pe	426 pf	427 pg	428 ph	429 pi	430 pj	431 pk	432 pl	433 pm	434 pn	435 po	436 pp	437 pq	438 pr	439 ps	440 pt	441 pu	442 pv	443 pw	444 px	445 py	446 pz	447 qa	448 qb	449 qc	450 qd	451 qe	452 qf	453 qg	454 qh	455 qi	456 qj	457 qk	458 ql	459 qm	460 qn	461 qo	462 qp	463 qq	464 qr	465 qs	466 qt	467 qu	468 qv	469 qw	470 qx	471 qy	472 qz	473 ra	474 rb	475 rc	476 rd	477 re	478 rf	479 rg	480 rh	481 ri	482 rj	483 rk	484 rl	485 rm	486 rn	487 ro	488 rp	489 rq	490 rr	491 rs	492 rt	493 ru	494 rv	495 rw	496 rx	497 ry	498 rz	499 sa	500 sb	501 sc	502 sd	503 se	504 sf	505 sg	506 sh	507 si	508 sj	509 sk	510 sl	511 sm	512 sn	513 so	514 sp	515 sq	516 sr	517 ss	518 st	519 su	520 sv	521 sw	522 sx	523 sy	524 sz	525 ta	526 tb	527 tc	528 td	529 te	530 tf	531 tg	532 th	533 ti	534 tj	535 tk	536 tl	537 tm	538 tn	539 to	540 tp	541 tq	542 tr	543 ts	544 tt	545 tu	546 tv	547 tw	548 tx	549 ty	550 tz	551 ua	552 ub	553 uc	554 ud	555 ue	556 uf	557 ug	558 uh	559 ui	560 uj	561 uk	562 ul	563 um	564 un	565 uo	566 up	567 uq	568 ur	569 us	570 ut	571 uu	572 uv	573 uw	574 ux	575 uy	576 uz	577 va	578 vb	579 vc	580 vd	581 ve	582 vf	583 vg	584 vh	585 vi	586 vj	587 vk	588 vl	589 vm	590 vn	591 vo	592 vp	593 vq	594 vr	595 vs	596 vt	597 vu	598 vv	599 vw	600 vx	601 vy	602 vz	603 wa	604 wb	605 wc	606 wd	607 we	608 wf	609 wg	610 wh	611 wi	612 wj	613 wk	614 wl	615 wm	616 wn	617 wo	618 wp	619 wq	620 wr	621 ws	622 wt	623 wu	624 wv	625 ww	626 wx	627 wy	628 wz	629 xa	630 xb	631 xc	632 xd	633 xe	634 xf	635 xg	636 xh	637 xi	638 xj	639 xk	640 xl	641 xm	642 xn	643 xo	644 xp	645 xq	646 xr	647 xs	648 xt	649 xu	650 xv	651 xw	652 xx	653 xy	654 xz	655 ya	656 yb	657 yc	658 yd	659 ye	660 yf	661 yg	662 yh	663 yi	664 yj	665 yk	666 yl	667 ym	668 yn	669 yo	670 yp	671 yq	672 yr	673 ys	674 yt	675 yu	676 yv	677 yw	678 yx	679 yy	680 yz	681 za	682 zb	683 zc	684 zd	685 ze	686 zf	687 zg	688 zh	689 zi	690 zj	691 zk	692 zl	693 zm	694 zn	695 zo	696 zp	697 zq	698 zr	699 zs	700 zt	701 zu	702 zv	703 zw	704 zx	705 zy	706 zz	707 aa	708 ab	709 ac	710 ad	711 ae	712 af	713 ag	714 ah	715 ai	716 aj	717 ak	718 al	719 am	720 an	721 ao	722 ap	723 aq	724 ar	725 as	726 at	727 au	728 av	729 aw	730 ax	731 ay	732 az	733 ba	734 bb	735 bc	736 bd	737 be	738 bf	739 bg	740 bh	741 bi	742 bj	743 bk	744 bl	745 bm	746 bn	747 bo	748 bp	749 bq	750 br	751 bs	752 bt	753 bu	754 bv	755 bw	756 bx	757 by	758 bz	759 ca	760 cb	761 cc	762 cd	763 ce	764 cf	765 cg	766 ch	767 ci	768 cj	769 ck	770 cl	771 cm	772 cn	773 co	774 cp	775 cq	776 cr	777 cs	778 ct	779 cu	780 cv	781 cw	782 cx	783 cy	784 cz	785 da	786 db	787 dc	788 dd	789 de	790 df	791 dg	792 dh	793 di	794 dj	795 dk	796 dl	797 dm	798 dn	799 do	800 dp	801 dq	802 dr	803 ds	804 dt	805 du	806 dv	807 dw	808 dx	809 dy	810 dz	811 ea	812 eb	813 ec	814 ed	815 ee	816 ef	817 eg	818 eh	819 ei	820 ej	821 ek	822 el	823 em	824 en	825 eo	826 ep	827 eq	828 er	829 es	830 et	831 eu	832 ev	833 ew	834 ex	835 ey	836 ez	837 fa	838 fb	839 fc	840 fd	841 fe	842 ff	843 fg	844 fh	845 fi	846 fj	847 fk	848 fl	849 fm	850 fn	851 fo	852 fp	853 fq	854 fr	855 fs	856 ft	857 fu	858 fv	859 fw	860 fx	861 fy	862 fz	863 ga	864 gb	865 gc	866 gd	867 ge	868 gf	869 gg	870 gh	871 gi	872 gj	873 gk	874 gl	875 gm	876 gn	877 go	878 gp	879 gq	880 gr	881 gs	882 gt	883 gu	884 gv	885 gw	886 gx	887 gy	888 gz	889 ha	890 hb	891 hc	892 hd	893 he	894 hf	895 hg	896 hh	897 hi	898 hj	899 hk	900 hl	901 hm	902 hn	903 ho	904 hp	905 hq	906 hr	907 hs	908 ht	909 hu	910 hv	911 hw	912 hx	913 hy	914 hz	915 ia	916 ib	917 ic	918 id	919 ie	920 if	921 ig	922 ih	923 ii	924 ij	925 ik	926 il	927 im	928 in	929 io	930 ip	931 iq	932 ir	933 is	934 it	935 iu	936 iv	937 iw	938 ix	939 iy	940 iz	941 ja	942 jb	943 jc	944 jd	945 je	946 jf	947 jg	948 jh	949 ji	950 jj	951 jk	952 jl	953 jm	954 jn	955 jo	956 jp	957 jq	958 jr	959 js	960 jt	961 ju	962 jv	963 jw	964 jx	965 jy	966 jz	967 ka	968 kb	969 kc	970 kd	971 ke	972 kf	973 kg	974 kh	975 ki	976 kj	977 kk	978 kl	979 km	980 kn	981 ko	982 kp	983 kq	984 kr	985 ks	986 kt	987 ku	988 kv	989 kw	990 kx	991 ky	992 kz	993 la	994 lb	995 lc	996 ld	997 le	998 lf	999 lg	1000 lh	1001 li	1002 lj	1003 lk	1004 ll	1005 lm	1006 ln	1007 lo	1008 lp	1009 lq	1010 lr	1011 ls	1012 lt	1013 lu	1014 lv	1015 lw	1016 lx	1017 ly	1018 lz	1019 ma	1020 mb	1021 mc	1022 md	1023 me	1024 mf	1025 mg	1026 mh	1027 mi	1028 mj	1029 mk	1030 ml	1031 mm	1032 mn	1033 mo	1034 mp	1035 mq	1036 mr	1037 ms	1038 mt	1039 mu	1040 mv	1041 mw	1042 mx	1043 my	1044 mz	1045 na	1046 nb	1047 nc	1048 nd	1049 ne	1050 nf	1051 ng	1052 nh	1053 ni	1054 nj	1055 nk	1056 nl	1057 nm	1058 nn	1059 no	1060 np	1061 nq	1062 nr	1063 ns	1064 nt	1065 nu	1066 nv	1067 nw	1068 nx	1069 ny	1070 nz	1071 oa	1072 ob	1073 oc	1074 od	1075 oe	1076 of	1077 og	1078 oh	1079 oi	1080 oj	1081 ok	1082 ol	1083 om	1084 on	1085 oo	1086 op	1087 oq	1088 or	1089 os	1090 ot	1091 ou	1092 ov	1093 ow	1094 ox	1095 oy	1096 oz	1097 pa	1098 pb	1099 pc	1100 pd	1101 pe	1102 pf	1103 pg	1104 ph	1105 pi	1106 pj	1107 pk	1108 pl	1109 pm	1110 pn	1111 po	1112 pp	1113 pq	1114 pr	1115 ps	1116
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[illegible]

FIG. 21

445	04	07	02	01	00	00	00	00	00	00	Disc Kind	This kind and format of the disc, eg. Recordable DVD, CD, ROM	#REF!	ISO Mixture string	32 bytes max	Leaf
446	04	07	03	00	00	00	00	00	00	00	Film Medium Information	Information about the physical film media	#REF!			Node
447	04	07	03	01	00	00	00	00	00	00	Film Stock Manufacturer	eg. Kodak, Ilford	#REF!	ISO Mixture string	33 bytes max	Leaf
448	04	07	03	02	00	00	00	00	00	00	Film Stock Type	eg. 247	#REF!	ISO Mixture string	32 bytes max	Leaf
449	04	07	03	03	00	00	00	00	00	00	Performance/Frame	Specifies number of perforations per frame (that is 3 or 4)	#REF!	Unit	1 byte	Leaf
450	04	07	03	04	00	00	00	00	00	00	Film Kind	Specifies the film type	#REF!	Film type	2 bytes	Leaf
451	04	07	03	05	00	00	00	00	00	00	Film Format	Identifies kind of film stock	#REF!	Film type	2 bytes	Leaf
452	04	07	03	06	00	00	00	00	00	00	Film Aspect Ratio	Specifies image aspect ratio for film	#REF!	Referral	1 bytes	Leaf
453	04	07	03	07	00	00	00	00	00	00	Manufacturer	Specifies manufacturer of film stock	#REF!	Unicode String	variable	Leaf
454	04	07	03	08	00	00	00	00	00	00	Model	Specifies film model number	#REF!	Unicode String	variable	Leaf
455	04	07	03	09	00	00	00	00	00	00	Film Gauge	The gauge and format of the film eg. 70 mm Neg. 8mm Movie/Scope 40 mm	#REF!	ISO Mixture string	32 bytes max	Leaf
456	04	08	00	00	00	00	00	00	00	00	Object Characteristics (Photobinder)		#REF!			Node
457	04	10	00	00	00	00	00	00	00	00	Device Characteristics	Information about the devices used	#REF!			Node
458	04	10	01	00	00	00	00	00	00	00	Camera Characteristics	Information about camera devices	#REF!			Node
459	04	10	01	01	00	00	00	00	00	00	Optical Characteristics	Information about camera optics	#REF!			Node
460	04	10	01	01	01	00	00	00	00	00	Focal Length	Focal length of the lens of film of collection	#REF!	Floating Point	4 bytes	Leaf
461	04	10	01	01	01	00	00	00	00	00	CCD Size	The area of the sensor - eg. 1/2", 2/3" etc	#REF!	ISO Mixture string	4 char max See bytes dictionary	Leaf
462	04	10	01	02	00	00	00	00	00	00	Lens	Aperture of the lens at the time of collection	#REF!	Floating Point	4 bytes	Leaf

Line #	SUORTE Label					Data Element Name	Japanese Names	Data Element Definition	Type	Value Length	Value Range	Noted/Led	Defining Document
463	04 10 01 01 02 00 00 00 00 00	Sensor Type Code	COD Size of Original Signals	Code indicating type of sensor that produced the original video content.	REFR	ISO 781 char	4 chars max	See types dictionary	Leaf				
464	04 10 01 01 03 00 00 00 00 00	Field of View	Field of View	Sensor field of view, in degrees.	REFR	floating point	4 bytes		Leaf				
465	04 10 01 01 04 00 00 00 00 00	Anamorphic Lens characteristic	Special Lenses	eq PNA; anamorphic	REFR	ISO 781 char	4 chars max	See types dictionary	Leaf				
466	04 10 01 02 00 00 00 00 00 00	Optical Test parameters	Optical Test Characteristics	Optical test parameters from the original recording	REFR				Node				
467	04 10 01 02 00 00 00 00 00 00	Optical Sensor Characteristics	Sensor Characteristics	Information about the optical sensor used	REFR				Node				
468	04 10 01 02 01 00 00 00 00 00	Pairs	Pairs Characteristics	Pairs test measurements	REFR	floating point	4 bytes		Leaf				
469	04 10 02 00 00 00 00 00 00 00	Microphone Characteristics	Microphone Characteristics	Information about microphones used	REFR				Node				
470	04 10 02 01 00 00 00 00 00 00	Sensor type	Sensor Type	hardware principle	REFR	ISO 781 char	4 chars max	See types dictionary	Leaf				
471	04 10 02 02 00 00 00 00 00 00	Polar characteristic	Polar Characteristics	polar patterns	REFR	ISO 781 char string	32 bytes max		Leaf				
472	04 15 00 00 00 00 00 00 00 00	Image Characteristics	Image Characteristics	The specific category of imagery	REFR				Node				
473	04 15 01 00 00 00 00 00 00 00	Image Category	Image Category	Identifies the specific category of imagery (often revealing the nature of the collector of interest used). Formulae as defined in NATO-CCD in addition to those defined here.	REFR	ISO 781 char string	32 bytes max		Leaf				
474	05 00 00 00 00 00 00 00 00 00	PROCESS	Class 5 Process	Class 5 is reserved for information about the essence processing	REFR				Node				
475	05 01 00 00 00 00 00 00 00 00	Process Indicators	Process Status Flag	Flags are indicating the process status of the essence	REFR				Node				
476	05 01 01 00 00 00 00 00 00 00	Fundamental	Fundamental Information	Information about process fundamentals	REFR				Node				
477	05 01 01 00 00 00 00 00 00 00	Integration Indicator	Display Segment of A Chip or Stack	Alarm that describes what the essence is as a unit value of the essence. Terms must be consistent with history or organizational practices to be useful. Includes a segment of a chip or stack.	REFR	ISO 781 char string	32 bytes max		Leaf				

FIG. 22

476	05	01	01	02	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
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SUITE Label						Data Element Name	Japanese Names	Data Element Definition	E- N	Type	Value Length	Value Range	Note/Lead	Defining Document
095	05	02	02	00	00	00	Audio Compression History	Audio history of compression for audio payload.	REFER				Note	
097	05	02	01	00	00	00	Audio Compression Algorithm	Algorithms used, bitrates used, modes used.	REFER	ISO 7-Mel chr	4 chars min	See types dictionary	Leaf	
098	05	02	02	00	00	00	LTPS-2 Audio dynamic coding History	Qualification per subband, scale factors as per SUPTB003.	REFER	as per standard			Leaf	
099	05	02	00	00	00	00	Audio Noise Reduction Algorithm	Algorithm used in a noise reduction process - eg Dolby SR, Telson, other	REFER	ISO 7-Mel chr	4 chars min	See types dictionary	Leaf	
090	05	02	00	00	00	00	Data Compression History	Audio history of compression for payload.	REFER				Note	
091	05	02	04	00	00	00	Melachita Compression History	Audio history of compression for payload.	REFER				Note	
092	05	10	00	00	00	00	MPEG Processing	MPEG processing performed on the essence	REFER				Note	
093	05	10	00	00	00	00	Splicing Metadata	MPEG-2 splicing metadata as defined in SDH-CP (EIAJ) and SMPTE 312M	REFER	as per standard			Leaf	
094	05	20	00	00	00	00	Enhancement or Modification	Enhancement or modification to the essence	REFER				Note	
095	05	20	00	00	00	00	Video processing	Enhancement or modification to the video essence	REFER				Note	
096	05	20	00	00	00	00	Enhancement or Modification Description	Description of how video content was modified.	REFER	ISO 7-Mel chr string	127 bytes max		Leaf	
097	05	20	00	00	00	00	Device Disposition	The settings of a specific device in the system	REFER				Note	
098	05	20	00	00	00	00	Device Kind	Specific identification for a device - eg for this camera, the grading, video camera, variable gain amplifier etc.	REFER	ISO 7-Mel chr string	32 bytes max		Leaf	
099	05	20	00	00	00	00	Device Parameter	Specific parameter for the specified device eg. Overall gain, A/D clamping	REFER	ISO 7-Mel chr string	32 bytes max		Leaf	
090	05	20	00	00	00	00	Device parameters setting	The setting of the specific parameter for the specified device	REFER	ISO 7-Mel chr string	32 bytes max		Leaf	

FIG. 23

511	05	20	00	00	00	00	00	00	00	Audio Processing	Audio Modification	Enhancement or modification to the audio essence.	REFER			Node
512	05	20	02	01	00	00	00	00	00	Enhancement or Modification Descriptions	Description of How Audio Content Was Modified	Description of how audio content was modified.	REFER	ISO 7-bit char string	127 bytes max	Leaf
513	05	20	02	02	00	00	00	00	00	Audio processor settings (Device specific)	Setting of Audio Device	The settings of a specific device in the system	REFER			Node
514	05	20	02	02	01	00	00	00	00	Device kind	Device Kind	Specific description for a device - eg The Compressor, limiter, etc	REFER	ISO 7-bit char string	32 bytes max	Leaf
515	05	20	02	02	00	00	00	00	00	Device parameter	Device Parameter	Specific parameters for the specified device eg Attack, gating	REFER	ISO 7-bit char string	32 bytes max	Leaf
516	05	20	02	02	03	00	00	00	00	Device parameter setting	Device Parameter Setting	The setting of the specific parameter for the specified device	REFER	ISO 7-bit char string	32 bytes max	Leaf
517	05	20	00	00	00	00	00	00	00	Data Processing	Data Processing	Enhancement or modification to the data essence	REFER			Node
518	05	20	03	01	00	00	00	00	00	Enhancement or Modification Description	Description of How Audio Content Was Modified	Description of how data content was modified.	REFER	ISO 7-bit char string	127 bytes max	Leaf
519	05	20	02	00	00	00	00	00	00	Data processors settings (Device specific)	Devices Setting	The settings of a specific device in the system	REFER			Node
520	05	20	02	01	00	00	00	00	00	Device kind	Device Kind	Specific description for a device	REFER	ISO 7-bit char string	32 bytes max	Leaf
521	05	20	02	02	00	00	00	00	00	Device parameter	Device Parameter	Specific parameter for the specified device	REFER	ISO 7-bit char string	32 bytes max	Leaf
522	05	20	02	03	00	00	00	00	00	Device parameter setting	Device Parameter Setting	The setting of the specific parameter for the specified device	REFER	ISO 7-bit char string	32 bytes max	Leaf
523	05	20	10	00	00	00	00	00	00	Editing Information	Editing Information	Information about alterations to the original source stream.	REFER			Node
524	05	20	10	01	00	00	00	00	00	Editing version information	Editing Version Information		REFER			Node
525	05	20	10	03	00	00	00	00	00	Version	Version of the Format	Specifies the version of the file format	REFER	Version type	2 bytes	Leaf WGS.32
526	05	20	10	02	00	00	00	00	00	Editing decisions	Editing Details		REFER			Node
527	05	20	10	02	01	00	00	00	00	Relative Scope	Content of Change	Specifies relative scope	REFER	Unit32	4 bytes	Leaf WGS.32
528	05	20	10	02	02	00	00	00	00	Relative Start	Change Set	Specifies start scope	REFER	Unit32	4 bytes	Leaf WGS.32

LINE NO.	SYNOPSIS LABEL	DATA ELEMENT NAME	JAPANESE NAME	DATA ELEMENT DEFINITION	UNIT	TYPE	VALUE LENGTH	VALUE RANGE	MODE/LEAF	DEFINING DOCUMENT
527	05 20 10 02 03 00 00	SourceSignalMdb	Source Signal Mdb	Specifies mdb in mdb	#REF!	Unit32	4 bytes		Leaf	W25.52
530	05 20 10 02 04 00 00	DefaultFadeType	Default Fade Type	Specifies the default fade type for audio fade out	#REF!	FadeType	2 bytes		Leaf	W25.52
531	05 20 10 03 00 00 00	EditingMdbInfo	Editing Mdb Information		#REF!				Node	
532	05 20 10 03 01 00 00	EditingMdbType	Editing Mdb Type	Specifies mdb as a rectangle	#REF!	Rectangle	32 bytes		Leaf	W25.52
533	05 20 10 04 00 00 00	EditingEventInfo	Editing Event Information		#REF!				Node	
534	05 20 10 04 01 00 00	EventComment	Comment	Describes event	#REF!	Unkntd String	variable		Leaf	W25.52
535	05 20 10 04 02 00 00	ActiveSub	Event On/Off	Specifies whether the event turns device on or off	#REF!	Boolean	1 byte		Leaf	W25.52
536	05 20 10 05 00 00 00	EditingEffectInfo	Editing Effect Information		#REF!				Node	
537	05 20 10 05 01 00 00	FadeType	Type of Audio Fade In	Specifies type of audio fade in	#REF!	FadeType	2 bytes		Leaf	W25.52
538	05 20 10 05 02 00 00	FadeOutType	Type of Audio Fade Out	Specifies type of audio fade out	#REF!	FadeType	2 bytes		Leaf	W25.52
539	05 20 10 05 03 01 00	ConstantValue	Constant Point	Specifies a value at specified time	#REF!	ConstValue	variable		Leaf	W25.52
540	05 20 10 05 04 02 00	ConstantValueValue	Constant Value	Specifies a constant value	#REF!	ConstValue	variable		Leaf	W25.52
541	05 20 10 05 05 00 00	EffectList	Mdb	Provides bits used when control point is edited	#REF!	EffectListType	2 bytes		Leaf	W25.52
542	05 20 10 05 06 00 00	Interleave	Transient Information	Handles time-varying effects	#REF!	Boolean	1 byte		Leaf	W25.52
543	05 20 10 05 07 00 00	Category	Category Information	Handles category of operation (effect, S/P function, etc.)	#REF!	OpCategories	variable		Leaf	W25.52

FIG.24

S44	05	20	10	05	00	00	00	00	00	Number of Input Segments	Specifies number of input segments	REF	4 bytes	Leaf	W25.52
S45	05	20	10	05	00	00	00	00	00	Bypass Information	Specifies default input policy	REF	4 bytes	Leaf	W25.52
S46	05	20	10	05	00	00	00	00	00	Editing Web Information		REF		Node	
S47	05	20	10	05	01	00	00	00	00	Begin	Specifies start of reference	REF	Unicode String	Leaf	W25.52
S48	05	20	10	05	02	00	00	00	00	End	Specifies end of reference	REF	Unicode String	Leaf	W25.52
S49	05	20	10	07	00	00	00	00	00	Editing Notes		REF		Node	
S50	05	20	10	07	01	00	00	00	00	Tag Information	Specifies the tag	REF	Unicode String	Leaf	W25.52
S51	05	20	10	07	02	00	00	00	00	TagsetValue Name	Specifies the tagged value	REF	Unicode	Leaf	W25.52
S52	05	00	00	00	00	00	00	00	00	RELATIONAL	Class 6 is reserved for information about the relationships between data	REF		Node	
S53	05	01	00	00	00	00	00	00	00	Relationships	What is being related?	REF		Node	
S54	05	01	01	00	00	00	00	00	00	Relation Type	Type of relation (e.g., part of, is a member of, predecessor, successor, contains, ...)	REF		Node	
S55	05	01	01	01	00	00	00	00	00	Correlative Value	The relationship value is terms of Parent of, Child of, Except of, Version of, Completion of, etc.	REF	ISO 7448 class string	Node	
S56	05	01	01	01	01	00	00	00	00	Source Material	For asset tracking	REF		Node	
S57	05	01	01	01	01	01	00	00	00	UNMD	For asset tracking	REF	UNMD	Leaf	
S58	05	01	04	01	01	02	00	00	00	Source Material	For asset tracking	REF	ISO 7448 class string	Leaf	
S59	05	01	01	01	02	00	00	00	00	Most Recent Edit Text	For asset tracking	REF		Node	
S60	05	01	04	01	01	04	00	00	00	Most Recent edit UNMD	For asset tracking	REF	UNMD	Leaf	
S61	05	01	04	01	01	02	00	00	00	Same as S60	For asset tracking	REF	ISO 7448 class string	Leaf	

[illegible]

FIG. 25

[illegible]

CURTE Label										Data Element Name	Japanese Names	Data Element Definition	Unit	Type	Value Length	Value Range	Hand Lead	Defining Document
595	06	04	01	02	05	00	00	00	00	Properties	Properties	Contains properties defined for class	#REF	StringReferenceS4/NA	NA	Property Definition	Leaf	W25.52
596	06	04	01	02	05	00	00	00	00	Locations	Locations	Specifies location of plug-ins	#REF	StringReferenceS4/NA	NA	Location	Leaf	W25.52
597	06	04	01	02	07	00	00	00	00	Class Definitions	Class Definitions	Contains class definitions	#REF	StringReferenceS4/NA	NA	Class Definition	Leaf	W25.52
598	06	04	01	02	08	00	00	00	00	Type Definitions	Type Definitions	Contains type definitions	#REF	StringReferenceS4/NA	NA	Type Definition	Leaf	W25.52
599	06	04	01	02	09	00	00	00	00	Operation Definitions	Operation Definitions	Contains operation definitions	#REF	StringReferenceS4/NA	NA	Operation Definition	Leaf	W25.52
600	06	04	01	02	0A	00	00	00	00	Parameter Definitions	Parameter Definitions	Contains operation parameter definitions	#REF	StringReferenceS4/NA	NA	Parameter Definition	Leaf	W25.52
601	06	04	01	02	0B	00	00	00	00	Data Definitions	Data Definitions	Contains data definitions	#REF	StringReferenceS4/NA	NA	Data Definition	Leaf	W25.52
602	06	04	01	02	0C	00	00	00	00	Plugin Descriptors	Plugin Descriptors	Contains plugin descriptors	#REF	StringReferenceS4/NA	NA	Plugin Descriptor	Leaf	W25.52
603	06	04	01	02	0D	00	00	00	00	Code Definitions	Code Definitions	Contains code definitions	#REF	StringReferenceS4/NA	NA	Code Definition	Leaf	W25.52
604	06	04	01	02	0E	00	00	00	00	Container Definitions	Container Definitions	Contains container definitions	#REF	StringReferenceS4/NA	NA	Container Definition	Leaf	W25.52
605	06	04	01	02	0F	00	00	00	00	Interpreter Definitions	Interpreter Definitions	Contains interpreter definitions	#REF	StringReferenceS4/NA	NA	Interpreter Definition	Leaf	W25.52
606	06	04	01	02	10	00	00	00	00	User Comments	Comments	Contains user comments about each	#REF	StringReferenceS4/NA	NA	Tagged text	Leaf	W25.52
607	06	04	01	03	00	00	00	00	00	Contains external text	Contains Sequence		#REF				Node	
608	06	04	01	03	01	00	00	00	00	Choices	Format Specifications	Specifies same essence in different formats	#REF	StringReferenceS4/NA	NA	Source Reference	Leaf	W25.52
609	06	04	01	03	02	00	00	00	00	Input Segments	Input Segment	Specifies the input to the operation	#REF	StringReferenceS4/NA	NA	Segment	Leaf	W25.52

FIG.26

[illegible]

Line #	SUPPLEMENT				Data Element Name	Japanese Names	Data Element Definition	Type	Value Length	Value Range	Note/Lead	Defining Document
C29	05	04	02	01	03	00	Property	Specifies the type of property	WeakReference	16 bytes	Leaf	N/23.52
C29	06	04	02	01	09	00	Category	Specifies definition object associated with design	WeakReference	16 bytes	Definition Object	N/23.52
C30	06	04	02	01	0A	00	File Descriptor Class	Manifests FileDescriptor associated with code	WeakReference	16 bytes	Class Definition	N/23.52
C31	06	04	02	01	0B	00	Method ID	Specifies method descriptors essence	WeakReference	16 bytes	Method	N/23.52
C32	06	04	02	01	0C	00	Container Format	Specifies container definition	WeakReference	16 bytes	Container Definition	N/23.52
C33	06	04	02	01	0D	00	Parameter Definition	Specifies the Parameter Definition	WeakReference	16 bytes	Parameter Definition	N/23.52
C34	06	04	02	01	0E	00	Type of This Parameter	Specifies the data type of the parameter	WeakReference	16 bytes	Type Definition	N/23.52
C35	06	04	02	01	0F	00	Interpolation	Specifies interpolation method to use	WeakReference	16 bytes	Interpolated Definition	N/23.52
C36	06	04	02	01	10	00	Date Type	Specifies the data type of the value	WeakReference	16 bytes	Type Definition	N/23.52
C37	06	04	02	01	11	00	Strong Perimeter of Object	Specifies the class of the referenced object	WeakReference		Class Definition	N/23.52
C38	06	04	02	01	12	00	Weak Perimeter of Object	Specifies the class of the referenced object	WeakReference		Class Definition	N/23.52
C39	06	04	02	01	13	00	Underlying Segment Type	Specifies the underlying type	WeakReference		Type Definition	N/23.52
C40	06	04	02	01	14	00	Type of Variable Alloy Element	Specifies the type of the array element	WeakReference		Type Definition	N/23.52
C41	06	04	02	01	15	00	Type of Fixed Alloy Element	Specifies the type of the array element	WeakReference		Type Definition	N/23.52
C42	06	04	02	01	16	00	Type of Set	Specifies the type of the set	WeakReference		Type Definition	N/23.52

FIG. 27

043	04	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1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SMILE label					Data Element Name	Japanese Names	Data Element Definition	U n i c o d e	Type	Value Length	Value Range	Model/Leaf	Defining Document
661	05	04	04	02	00	00	Properties		REFER			Node	
662	05	04	04	02	01	00	Hints		Boolean	1 byte		Leaf	W25.52
663	05	04	04	02	02	00	Optional or Mandatory		Boolean	1 byte		Leaf	W25.52
664	05	04	04	02	03	00	Default Condition		Data Value	variable		Leaf	W25.52
665	05	04	04	02	04	00	Local ID		UInt32	4 bytes		Leaf	W25.52
666	05	04	04	03	00	00	Type Definition		REFER			Node	
667	05	04	04	03	01	00	Size		UInt32			Leaf	W25.52
668	05	04	04	03	02	00	Specified Size		Boolean			Leaf	W25.52
669	05	04	04	03	03	00	Element Name		String			Leaf	W25.52
670	05	04	04	03	04	00	Element Name		Array of UInt32			Leaf	W25.52
671	05	04	04	03	05	00	Number of Elements in The Array		UInt32			Leaf	W25.52
672	05	04	04	03	06	00	Member Names		String			Leaf	W25.52
673	05	04	04	03	07	00	Extension Name		String			Leaf	W25.52
674	05	04	04	03	08	00	Extension Name		String			Leaf	W25.52
675	05	04	04	03	09	00	Instance Description		String			Node	

FIG.28

070	05	04	04	04	01	00	00	00	00	Description	Description	Provides informative description	REF	Unicode String	variable	Leaf	NOS.32
077	05	04	04	05	00	00	00	00	00	Container definition	Container Definitions		REF			Node	
078	05	04	04	05	01	00	00	00	00	Essence identified	Essence Label	Specifies that the container label identifies essence with SAPTE label or other AUID	REF	Boolean	1 byte	Leaf	NOS.32
079	05	04	05	00	00	00	00	00	00	Pattern code objects	Code Objects		REF			Node	
080	05	04	05	01	00	00	00	00	00	Relationship to plugin code objects	Plugin Code Objects		REF			Node	
081	05	04	05	01	01	00	00	00	00	Items	Name	Specifies name of plugin	REF	Unicode String	variable	Leaf	NOS.32
082	05	04	05	01	02	00	00	00	00	Plugin/Descriptor identification	Plugin	Specifies SAPTE label or GUID identifying plugin	REF	AUID	16 bytes	Leaf	NOS.32
083	05	04	05	01	03	00	00	00	00	Description	Description	Provides informative description	REF	Unicode String	variable	Leaf	NOS.32
084	05	04	05	01	04	00	00	00	00	Version/Number	Version Number	Specifies version number of plugin code	REF	Version type	2 bytes	Leaf	NOS.32
085	05	04	05	01	05	00	00	00	00	Version String	Version String	Specifies string version number of plugin code	REF	Unicode String	variable	Leaf	NOS.32
086	05	04	05	01	06	00	00	00	00	Manufacturer	Manufacturer	Specifies manufacturer of plugin	REF	Unicode String	variable	Leaf	NOS.32
087	05	04	05	01	07	01	00	00	00	ManufacturerID	Manufacturer ID	Specifies SAPTE label or GUID identifying manufacturer	REF	AUID	16 bytes	Leaf	NOS.32
088	05	04	05	01	08	04	00	00	00	Platform	Platform	Specifies hardware platform for plugin	REF	AUID	16 bytes	Leaf	NOS.32
089	05	04	05	01	09	00	00	00	00	MacPlatformVersion	Platform Version	Specifies minimum OS version for plugin	REF	Version type	2 bytes	Leaf	NOS.32
090	05	04	05	01	0A	00	00	00	00	NewPlatformVersion	Platform OS Version	Specifies minimum OS version for plugin	REF	Version type	2 bytes	Leaf	NOS.32
091	05	04	05	01	0B	05	00	00	00	Engine	Plugin Engine	Specifies plugin engine	REF	AUID	16 bytes	Leaf	NOS.32
092	05	04	05	01	0C	00	00	00	00	MultiEngineVersion	Multiengine Version	Specifies minimum plugin engine version	REF	Version type	2 bytes	Leaf	NOS.32
093	05	04	05	01	0D	00	00	00	00	NewEngineVersion	Multiengine Version	Specifies minimum plugin engine version	REF	Version type	2 bytes	Leaf	NOS.32

Line #	SUITE Label										Data Element Name	Japanese Names	Data Element Definition	Type	Value Length	Value Range	Model/Leaf	Defining Document
694	05	04	05	01	0E	00	00	00	00	00	Plugin API	Plugin API	Specifies plugin API	AUD	16 bytes		Leaf	WZS.52
695	05	04	05	01	0F	00	00	00	00	00	MaxPlugin API	Maxplugin API	Specifies maximum API version	REF	2 bytes		Leaf	WZS.52
696	05	04	05	01	10	00	00	00	00	00	MaxPlugin API	Maxplugin API	Specifies maximum API version	REF	2 bytes		Leaf	WZS.52
697	05	04	05	01	11	00	00	00	00	00	Software	Software	Specifies plugin can handle without specialized hardware	REF	1 byte		Leaf	WZS.52
698	05	04	05	01	12	00	00	00	00	00	Accelerator	Accelerator	Specifies plugin is optimized for specialized hardware	REF	1 byte		Leaf	WZS.52
699	05	04	05	01	13	00	00	00	00	00	Authentication	Authentication	Specifies whether the plugin uses authentication	REF	1 byte		Leaf	WZS.52
700	05	04	05	02	00	00	00	00	00	00	Relations To Application Code	Relations To Application Code		REF		Node		
701	05	04	05	02	01	00	00	00	00	00	Company Name	Company Name	Specifies the name of company supplying the application	REF	variable		Leaf	WZS.52
702	05	04	05	02	02	00	00	00	00	00	Product Name	Product Name	Specifies the application name	REF	variable		Leaf	WZS.52
703	05	04	05	02	03	00	00	00	00	00	Product ID	Product Number	Specifies the SUITE label or GUID identifying the product	REF	16 bytes		Leaf	WZS.52
704	05	04	05	02	04	00	00	00	00	00	Product Version	Product Version	Specifies the application version	REF	10 bytes		Leaf	WZS.52
705	05	04	05	02	05	00	00	00	00	00	Product Version String	Product Version String	Specifies a printable product version string	REF	variable		Leaf	WZS.52
706	05	04	05	02	06	00	00	00	00	00	Toolkit Version	Toolkit Version	Specifies version number of toolkit	REF	10 bytes		Leaf	WZS.52
707	05	04	05	02	07	00	00	00	00	00	Platform	Platform	Specifies hardware and OS platform application was on	REF	variable		Leaf	WZS.52
708	07	00	00	00	00	00	00	00	00	00	CLASS 7 SPACE AND TIME	CLASS 7 IS RESERVED FOR INFORMATION ABOUT SPACE AND TIME		REF		Node		

FIG.29

ID	Code	Field 07	Field 06	Field 05	Field 04	Field 03	Field 02	Field 01	Field 00	Position and Space Vectors	Position and Space Vectors	Description	Units	Notes
709	07	01	00	00	00	00	00	00	00	Image Coordinate System	Image Coordinate System	Indicates the geo-referenced coordinate system for the image.	REF: ISO 15824	Leaf
710	07	01	01	00	00	00	00	00	00	Map Datum Used	Map Datum Used	Identifies the map datum used to derive the coordinates (UTM or GCS).	REF: ISO 15824	Leaf
711	07	01	02	00	00	00	00	00	00	Absolute Position	Absolute Position	Absolute positional information.	REF:	Note
712	07	01	03	00	00	00	00	00	00	Local Reference Position	Local Reference Position	The absolute position of a local datum.	REF:	Note
713	07	01	04	00	00	00	00	00	00	Local Reference Position Accuracy	Local Reference Position Accuracy	The accuracy with which the measurement of absolute position of the local datum is made.	REF: Floating Point	Leaf
714	07	01	05	00	00	00	00	00	00	Device Absolute Position	Device Absolute Position	The absolute position of the sensor-carrying device.	REF:	Note
715	07	01	06	00	00	00	00	00	00	Device Absolute Position Accuracy	Device Absolute Position Accuracy	Accuracy of frame center coordinates as a Circular Error Probable (CEP) [m].	REF: Floating Point	Leaf
716	07	01	07	00	00	00	00	00	00	Device Altitude	Device Altitude	Altitude of sensor as measured from Mean Sea Level (MSL).	REF: Floating Point	Leaf
717	07	01	08	00	00	00	00	00	00	Device Altitude Accuracy	Device Altitude Accuracy	As above.	REF: Binary	Leaf
718	07	01	09	00	00	00	00	00	00	Device Latitude	Device Latitude	Specifies a sensor's geographic location in degrees of latitude. Positive values indicate northern hemisphere; negative values indicate southern hemisphere.	REF: Floating Point	Leaf
719	07	01	10	00	00	00	00	00	00	Device Longitude	Device Longitude	Specifies a sensor's geographic location in degrees of longitude. Positive values indicate eastern hemisphere; negative values indicate western hemisphere.	REF: Floating Point	Leaf
720	07	01	11	00	00	00	00	00	00	Device X Dimension	Device X Dimension	As above.	REF: Binary	Leaf
721	07	01	12	00	00	00	00	00	00	Device Y Dimension	Device Y Dimension	Specifies the sensor location along the y-axis in Earth Coordinates. Earth Fixed (CEF) Cartesian coordinates.	REF: Floating Point	Leaf
722	07	01	13	00	00	00	00	00	00	Device Z Dimension	Device Z Dimension	Specifies the sensor location along the z-axis in Earth Coordinates. Earth Fixed (CEF) Cartesian coordinates.	REF: Floating Point	Leaf
723	07	01	14	00	00	00	00	00	00	Subject Absolute Position	Subject Absolute Position	The absolute position of the subject depicted in the sensor.	REF: Floating Point	Leaf
724	07	01	15	00	00	00	00	00	00	Frame Positional Accuracy	Frame Positional Accuracy	Accuracy of frame center coordinates as a Circular Error Probable (CEP) [m].	REF: Floating Point	Leaf

FIG. 30

742	07	04	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00</
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	SUPTE label			Data Element Name	Japanese Names	Data Element Definition	Line #	Type	Value Length	Value Range	Note/Leaf	Defining Document
760	07 01 10 02 01 02	00	00	Subject Absolute Heading (degrees)	Subject Absolute Heading	Defined by the absolute heading of the subject		REFER	Heading Point	4 bytes	Type Node	
761	07 01 10 02 02 02	00	00	Relative Subject Rate and Direction of Positional Change	Relative Subject Rate and Direction of Positional Change	Relative information about rate and direction of positional change of the subject depicted in the captured essence		REFER			Note	
762	07 01 10 02 02 01	00	00	Subject Relative Speed (feet/second)	Subject Relative Speed	Defined by the relative velocity of the subject along the heading		REFER	Heading Point	4 bytes	Type Node	
763	07 01 10 02 02 02	00	00	Subject Relative Heading (degrees)	Subject Relative Heading	Defined by the relative heading of the subject		REFER	Heading Point	4 bytes	Type Node	
764	07 01 11 00 00 00	00	00	Angular Specifications	Angular Specifications	Information regarding angles related to positioning information		REFER			Note	
765	07 01 11 01 00 00	00	00	Device Angles	Device Angles	Device information regarding angles related to positioning information		REFER			Note	
766	07 01 11 01 01 00	00	00	Sensor Roll Angle (degrees)	Sensor Roll Angle	Specifies the roll angle of the sensor. Expressed in degrees.		REFER	Heading point	4 bytes	Leaf	
767	07 01 11 01 02 00	00	00	Angle to North (degrees)	Angle To North	Angle in degrees from the bottom of the image to true north.		REFER	Heading point	4 bytes	Leaf	
768	07 01 11 01 03 00	00	00	Obliquity Angle (degrees)	Obliquity Angle	Obliquity angle of range expressed in degrees. The inverse of sensor depression angle.		REFER	Heading point	4 bytes	Leaf	
769	07 01 12 00 00 00	00	00	Subject Angles (degrees)	Subject Angles	Angles relating to the subject depicted in the captured essence		REFER	Heading point	4 bytes	Leaf	
770	07 01 13 00 00 00	00	00	Distance measurements	Distance Measurements	Length measurements relating to distance		REFER			Note	
771	07 01 15 01 00 00	00	00	Device To Subject Distance From device	Device To Subject Distance From device	Length measurements relating to distance between capturing device and the subject depicted in the captured essence		REFER			Note	
772	07 01 15 01 01 00	00	00	Span Range (meters)	Angle To Subject	Distance from the sensor to the center point on ground of the tracked subject (range) depicted in the captured essence.		REFER	Heading point	4 bytes	Type Node	
773	07 01 17 00 00 00	00	00	Dimensions	Distance	Length measurements relating to size		REFER			Note	
774	07 01 17 01 00 00	00	00	Subject Dimensions	Subject Distances	Length measurements relating to the size of the subject depicted in the captured essence		REFER			Note	

FIG. 31

795	07	06	17	01	00	00	00	00	Target Width	Horizontal half width of the target frame image used to compute the four corner points of the frame.	REFER	4 bytes	Type Note
796	07	01	17	02	00	00	00	00	Essence Position	Length measurements relating to the size of the location in which the essence was captured	REFER		Note
797	07	01	17	10	00	00	00	00	Media Dimensions	Length measurements relating to the size of the medium on which the essence was captured	REFER		Note
798	07	04	17	10	01	00	00	00	Physical Media Length	The physical length of the medium on which the essence was captured	REFER UNUSF	4 bytes	Type Note
799	07	01	17	11	00	00	00	00	Image Dimensions	Length measurements relating to the physical size of the image formed as a capturing device	REFER		Note
800	07	01	17	11	01	00	00	00	Pan and Scan Image Dimensions	Length measurements relating to pan and scan subsampling of a captured image	REFER		Note
801	07	01	17	11	01	01	00	00	Viewport Height	The height of the viewed area within a captured image	REFER Unbit 8	2 bytes	Type Note
802	07	01	17	11	01	02	00	00	Viewport Width	The width of the viewed area within a captured image	REFER Unbit 6	2 bytes	Type Note
803	07	01	20	00	00	00	00	00	Abstract Locations	Abstract information about position	REFER		Note
804	07	01	20	01	00	00	00	00	Place Names	Place information	REFER		Note
805	07	01	20	01	01	00	00	00	Gazetted Used	Reference to a locally registered gazetteer or a similar authoritative source of place keywords	REFER ISO 746 char	4 chars max See types dictionary	Type Note
806	07	01	20	01	02	00	00	00	Place Keyword	The geographic name(s) of location(s) covered by a title set	REFER ISO 746 char editing	32 bytes max	Text
807	07	01	20	01	03	00	00	00	Country Code	Country code information	REFER		Note
808	07	01	20	01	03	01	00	00	Country Code of Descripting	The code that represents the country depicted in the essence	REFER ISO 746 char	4 chars max See types dictionary	Type Note
809	07	01	20	01	03	02	00	00	Country Code of Shot	Country where shooting took place	REFER ISO 746 char	4 chars max See types dictionary	Type Note
810	07	01	20	01	03	03	00	00	Country Code of Setting	The country code of the country where the depicted action is set in the production	REFER ISO 746 char	4 chars max See types dictionary	Type Note
811	07	01	20	01	03	04	00	00	Country Code of Copyright License	The country code of a country where copyright is licensed	REFER ISO 746 char	4 chars max See types dictionary	Type Note
812	07	01	20	01	03	05	00	00	Country Code of IP License	The country code of a country where IP rights are licensed	REFER ISO 746 char	4 chars max See types dictionary	Type Note

FIG. 32

800	07	01	20	01	05	00	00	00	Postal Address Described in This Setting of a Production	Information about postal addresses depicted in the setting of a production	REF				Note
809	07	01	20	01	06	01	00	00	Setting room number	The room number of a depicted address	REF	ISO 7418 char string	32 bytes max		Leaf
810	07	01	20	01	06	02	00	00	Setting Street Number or Building Name	An address line for the depicted address	REF	ISO 7418 char string	32 bytes max		Leaf
811	07	01	20	01	06	03	00	00	Setting Street	An address line for the depicted address	REF	ISO 7418 char string	32 bytes max		Leaf
812	07	01	20	01	06	04	00	00	Setting Town	An address line for the depicted address	REF	ISO 7418 char string	32 bytes max		Leaf
813	07	01	20	01	06	05	00	00	Setting City	The city of the depicted address	REF	ISO 7418 char string	32 bytes max		Leaf
814	07	01	20	01	06	06	00	00	Setting State or Province or Country	The state, province or country of the depicted address	REF	ISO 7418 char string	32 bytes max		Leaf
815	07	01	20	01	06	07	00	00	Setting Postal Code	The ZIP or other postal code of the depicted address	REF	ISO 7418 char string	32 bytes max		Leaf
816	07	01	20	01	06	08	00	00	Setting Country	The country of the depicted address	REF	ISO 7418 char string	32 bytes max		Leaf
817	07	01	20	01	06	09	00	00	Setting Description	eg. "A clearing is a wood" or "Feldstraße 143a/200"	REF				Type Node
818	07	01	20	01	06	09	01	00	Setting Description	eg. "A clearing is a wood" or "Feldstraße 143a/200"	REF	ISO 7418 char string	127 chars max		Leaf
819	07	01	20	01	10	00	00	00	Electronic Address	Information about electronic addresses	REF				Node
820	07	01	20	01	10	01	00	00	Telephone number	Telephone number	REF	ISO 7418 char string	32 bytes max		Leaf
821	07	01	20	01	10	02	00	00	Fax Number	Fax number	REF	ISO 7418 char string	32 bytes max		Leaf
822	07	01	20	01	10	03	00	00	E-Mail Address	e-mail address	REF	ISO 7418 char string	32 bytes max		Leaf
823											REF				
824	07	02	00	00	00	00	00	00	Date and Time	Information about dates and times	REF				Node
825	07	02	01	00	00	00	00	00	Material Date and Time	Information about dates and times relating to captured material	REF				Node

LINE #	DATA ELEMENT NAME	JAPANESE NAMES	DATA ELEMENT DEFINITION	TYPE	VALUE LENGTH	VALUE RANGE	NOTES/LEAD	DEFINING DOCUMENT
625	Operational Date-Time stamp	Operational Date-Time	Operational date and time information (a timestamp)	PER				
627	Creation Date-Time stamp	Creation Date-Time	Time stamp for original material	PER			Type Lead	
628	Creation Date-Time stamp	Creation Date-Time	Time stamp for original material	PER	8 bytes	Hexide mapping of 64-bit timestamp into 8 bytes, 160 first	Lead	
629	Last modified Date-Time stamp	Last Modified Date-Time	Time stamp for last modification of material	PER			Type Lead	
630	Last modified Date-Time stamp	Last Modified Date-Time	Time stamp for last modification of material	PER	8 bytes	Hexide mapping of 64-bit timestamp into 8 bytes, 160 first	Lead	
631	User defined Date-Time stamp	User Defined Date-Time	Time stamp application defined by user application	PER			Type Lead	
632	User defined Date-Time stamp	User Defined Date-Time	Time stamp application defined by user application	PER	8 bytes	Hexide mapping of 64-bit timestamp into 8 bytes, 160 first	Lead	
633	Absolute Date and Time	Absolute Date and Time	Absolute date and time information	PER			Mode	
634	Start Date Time	Production Start Date Time	Absolute time at start of creating the start or stop	PER	8 bytes	Hexide mapping of 64-bit timestamp into 8 bytes, 160 first	Lead	
635	End Date Time	Production End Date Time	Absolute time at end of creating the start or stop	PER	8 bytes	Hexide mapping of 64-bit timestamp into 8 bytes, 160 first	Lead	
636	Segment Start Date and Time	Segment Start Date and Time	Absolute time at the start of a segment within a start or stop	PER	8 bytes	Hexide mapping of 64-bit timestamp into 8 bytes, 160 first	Lead	
637	Segment End Date and Time	Segment End Date and Time	Absolute time at the end of a segment within a start or stop	PER	8 bytes	Hexide mapping of 64-bit timestamp into 8 bytes, 160 first	Lead	
638	Relative Date and Time	Relative Date and Time	Relative date and time information	PER			Mode	
639	Start Date Time	Media Start Date Time	Media time at start of start or stop	PER	8 bytes	Hexide mapping of 64-bit timestamp into 8 bytes, 160 first	Lead	
640	End Date Time	Media End Date Time	Media time at end of start or stop	PER	8 bytes	Hexide mapping of 64-bit timestamp into 8 bytes, 160 first	Lead	

FIG. 33

841	07	02	01	03	00	00	00	00	00	Segment Start Date and Time	Segment Start Date and Time	Media time at the start of a segment within a shot or clip	REF	ULSF	8 bytes	Relative mapping of 64-bit timestamps into 8 bytes, 160 bits	Leaf
842	07	02	01	03	04	00	00	00	00	Segment End Date and Time	Segment End Date and Time	Media time at the end of a segment within a shot or clip	REF	ULSF	8 bytes	Relative mapping of 64-bit timestamps into 8 bytes, 160 bits	Leaf
843	07	02	02	03	00	00	00	00	00	Material Durations	Time Durations	Information about time durations relating to captured material	REF				Node
844	07	02	02	03	01	00	00	00	00	Absolute Durations	Absolute Time Durations	Media time duration information	REF				Node
845	07	02	02	03	01	01	00	00	00	Time Duration	Time Duration	Length of the content in Time units	REF	ULSF	4 bytes	Relative mapping of 64-bit timestamps into 8 bytes, 160 bits	Leaf
846	07	02	02	03	01	02	00	00	00	Segment Duration	Segment Duration	Duration of a segment within a shot or clip in Time units	REF	ULSF	4 bytes	Relative mapping of 64-bit timestamps into 8 bytes, 160 bits	Leaf
847	07	02	02	03	01	03	00	00	00	Frame Count	Frame Count	Length of the content in film frames	REF	ULSF	4 bytes	Relative mapping of 64-bit timestamps into 8 bytes, 160 bits	Leaf
848	07	02	02	03	01	04	00	00	00	Segment frame count	Segment Frame Count	Duration of a segment within a shot or clip in film frames	REF	ULSF	4 bytes	Relative mapping of 64-bit timestamps into 8 bytes, 160 bits	Leaf
849	07	02	02	03	01	05	00	00	00	Timeless Black duration	Timeless Black Duration	eg. 1 minutes after end of programme	REF	ULSF	4 bytes	Relative mapping of 64-bit timestamps into 8 bytes, 160 bits	Leaf
850	07	02	02	03	02	00	00	00	00	Relative Durations	Relative Durations	Relative time duration information	REF				Node
851	07	02	02	03	02	01	00	00	00	Time Duration	Time Duration	Relative length of the content in Time units	REF	ULSF	4 bytes		Leaf
852	07	02	02	03	02	02	00	00	00	Segment Duration	Segment Duration	Duration of a segment within a shot or clip in Time units	REF	ULSF	4 bytes		Leaf
853	07	02	02	03	02	03	00	00	00	Frame Count	Film Frame Interval	Length of the content in film frames	REF	ULSF	4 bytes		Leaf
854	07	02	02	03	02	04	00	00	00	Segment frame count	Segment Frame Interval	Duration of a segment within a shot or clip in film frames	REF	ULSF	4 bytes		Leaf
855	07	02	03	01	00	00	00	00	00	Rights Date and Time	Rights Date and Time	Dates and Times relating to Copyright and Intellectual Property Rights	REF				Node
856	07	02	03	01	00	00	00	00	00	Copyright Date and Time	Copyright Date and Time	Dates and Times relating to Copyright	REF				Node
857	07	02	03	02	00	00	00	00	00	IP Rights Date and Time	IP Rights Date and Time	Dates and Times relating to Intellectual Property Rights	REF				Node
858	07	02	03	02	01	00	00	00	00	License start date and time	License Start Date and Time	License start date and time	REF	ULSF	8 bytes	Relative mapping of 64-bit timestamps into 8 bytes, 160 bits	Leaf

FIG. 34	Sub-Element	Element Name	Japanese Name	Data Element Definition	Type	Value Length	Value Range	Node/Leaf	Defining Document
659	07 02 03 02 01 00 00	Option start date and time	Option Start Date and Time	Option start date and time	REF	4 bytes	Binary mapping of 64-bit timestamps into 4 bytes, lsb first	Leaf	
660	07 02 03 02 02 00 00	License end date and time	License End Date and Time	License end date and time	REF	4 bytes	Binary mapping of 64-bit timestamps into 4 bytes, lsb first	Leaf	
661	07 02 03 02 02 00 00	Option end date and time	Option End Date and Time	Option end date and time	REF	4 bytes	Binary mapping of 64-bit timestamps into 4 bytes, lsb first	Leaf	
662	07 02 04 00 00 00 00	Rights Durations	Rights Durations	Information about the duration of a copyright or intellectual property license	REF			Node	
663	07 02 04 01 00 00 00	Copyright Durations	Copyright Durations	Information about the duration of a copyright license	REF			Node	
664	07 02 04 02 00 00 00	IP Rights Durations	IP Rights Durations	Information about the duration of an intellectual property license	REF			Node	
665	07 02 04 02 01 00 00	License duration	License Duration	Information about the duration of a license	REF	4 bytes	Binary mapping of 64-bit timestamps into 4 bytes, lsb first	Leaf	
666	07 02 04 02 02 00 00	Option duration	Option Duration	Information about the duration of a license	REF	4 bytes	Binary mapping of 64-bit timestamps into 4 bytes, lsb first	Leaf	
667	07 02 05 00 00 00 00	Cataloging Date and Time	Cataloging Date and Time	Information about cataloging and indexing	REF			Node	
668	07 02 05 01 00 00 00	Creation Date and Time	Creation Date and Time	The creation date and time of the data set	REF	4 bytes	Binary mapping of 64-bit timestamps into 4 bytes, lsb first	Leaf	
669	07 02 05 02 00 00 00	Last Modified	Last Modified Date	Date and time of last modification	REF	4 bytes	Binary mapping of 64-bit timestamps into 4 bytes, lsb first	Leaf	
670	07 02 05 00 00 00 00	Event Date and Time	Event Date and Time	Date and Time information relating to events	REF			Node	
671	07 02 05 01 00 00 00	Absolute Event Date and Time	Absolute Event Date and Time	Absolute Date and Time information relating to events	REF			Node	
672	07 02 05 01 00 00 00	Absolute start times	Absolute Event Start Times	Absolute Date and Time information relating to the start of events	REF			Node	
673	07 02 06 01 00 00 00	Project Mission Start Date and Time	Project Start Date and Time	The absolute beginning date and time of the project or mission	REF	4 bytes	Binary mapping of 64-bit timestamps into 4 bytes, lsb first	Leaf	

FIG.34

474	07	02	02	01	02	01	00	00	Scene Start Date and Time	Scene Start Date and Time	The absolute beginning date and time of the scene, or shot.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf
475	07	02	05	01	03	00	00	00	Shot Start Date and Time	Shot Start Date and Time	The absolute beginning date and time of the shot.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf
476	07	02	05	01	01	00	00	00	Broadcast Start Date and Time	Broadcast Start Date and Time	Absolute start date and time of a specific broadcast.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf
477	07	02	05	01	02	00	00	00	Absolute End Times	Absolute End Times	Absolute Date and Time information relating to the end of events.	REF				Node
478	07	02	05	01	02	01	00	00	Project End Date and Time	Project End Date and Time	The absolute ending date and time of the project or mission.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf
479	07	02	05	01	02	02	00	00	Scene End Date and Time	Scene End Date and Time	The absolute ending date and time of the scene, or shot.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf
480	07	02	05	01	02	03	00	00	Shot End Date and Time	Shot End Date and Time	The absolute ending date and time of the shot.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf
481	07	02	05	01	02	04	00	00	Broadcast End Date and Time	Broadcast End Date and Time	Absolute end date and time of a specific broadcast.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf
482	07	02	05	02	00	00	00	00	Relative Date and Time	Relative Date and Time	Relative Date and Time information relating to events by Two Days and five hours after.	REF				Node
483	07	02	05	02	01	00	00	00	Relative Event Start Times	Relative Event Start Times	Relative Date and Time information relating to the start of events.	REF				Node
484	07	02	05	02	01	01	00	00	Project Mission Start Date and Time	Project Mission Start Date and Time	The relative beginning date and time of the project or mission.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf
485	07	02	05	02	01	02	00	00	Scene Start Date and Time	Scene Start Date and Time	The relative beginning date and time of this scene, or shot.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf
486	07	02	05	02	01	03	00	00	Shot Start Date and Time	Shot Start Date and Time	The relative beginning date and time of the shot.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf
487	07	02	05	02	01	04	00	00	Broadcast Start and Time	Broadcast Start and Time	Relative start time of a specific broadcast within a parent programme.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf
488	07	02	05	02	02	00	00	00	Relative End Times	Relative End Times	Relative Date and Time information relating to the end of events.	REF				Node
489	07	02	05	02	02	01	00	00	Project End Date and Time	Project End Date and Time	The relative ending date and time of the project or mission.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf
490	07	02	05	02	02	02	00	00	Scene End Date and Time	Scene End Date and Time	The relative ending date and time of the scene, or shot.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf
491	07	02	05	02	02	03	00	00	Shot End Date and Time	Shot End Date and Time	The relative ending date and time of the shot.	REF	ULSBF	8 bytes	Service mapping of 64-bit timescode into 8 bytes, 16-bit	Leaf

FIG. 35

[illegible]

Line #	Sub-Element Label	Element Name	Japanese Name	Data Element Definition	Line #	Type	Value Length	Value Range	Node/Leaf	Defining Document
925	07 03 01 01	Encoding Delay	Encoding Delay Time	Information about delay durations in encoding processes	925F				Node	
926	07 03 01 02	Decoding Delay	Decoding Delay Time	Information about delay durations in decoding processes	926F				Node	
927	07 03 01 03	Buffer Delay	Buffer Delay Time	Buffer delay per definition in SMP-CF (SMA)	927F	as per standard			Leaf	
928	07 03 01 04	Latency	Latency Information	Information about response times	928F				Node	
929	07 03 01 05	Temporal shape (Shuttering etc) [PLACEHOLDERS]	Information About Temporal Characteristics	Information about temporal characteristics of processes	929F				Node	
930	07 03 01 06	Shutter characteristics [placeholder]	Shutter Characteristics	Shutter characteristics	930F				Node	
931	07 03 01 07	Shutter speed [placeholder]	Shutter Speed	Shutter speed	931F				Node	
932	07 03 01 08	Shutter Gating [placeholder]	Shutter Gating Characteristics	Shutter Gating characteristics	932F				Node	
933	0E 00 00 00 00 00 00 00	USER ORGANIZATION [REGISTERED]	Class 14 User Data	Class 15 is reserved for user organization registered metadata	933F				Node	
934	0E 01 00 00 00 00 00 00	Publicly registered user organization metadata	Co-Used Registered Metadata		934F				Node	
935	0E 02 00 00 00 00 00 00	Privately registered user organization metadata	Private Metadata		935F				Node	
936	0E 02 01 00 00 00 00 00	DOJ Metadata	Metadata for U.S. Department of Defence Agencies	Metadata for U.S. Department of Defence agencies	936F				Node	
937	0E 02 02 00 00 00 00 00	NAVY Metadata	UAV Metadata	UAV Metadata	937F				Node	
938	0E 02 03 00 00 00 00 00	RQIA Metadata	RQIA Metadata	RQIA Metadata	938F				Node	
939	0E 02 03 01 00 00 00 00	RQIA Closed Caption Set	RQIA Metadata From RQIA Closed Caption	RQIA Metadata Set containing metadata information from analog closed caption	939F				Node	
940	0E 02 03 02 00 00 00 00	EXPERIMENTAL METADATA	Class 15 Experimental Metadata	Class 15 Metadata is for experimental metadata. Users may create their own identifiers consistent with the metadata encoding standard.	940F				Node	

FIG.36

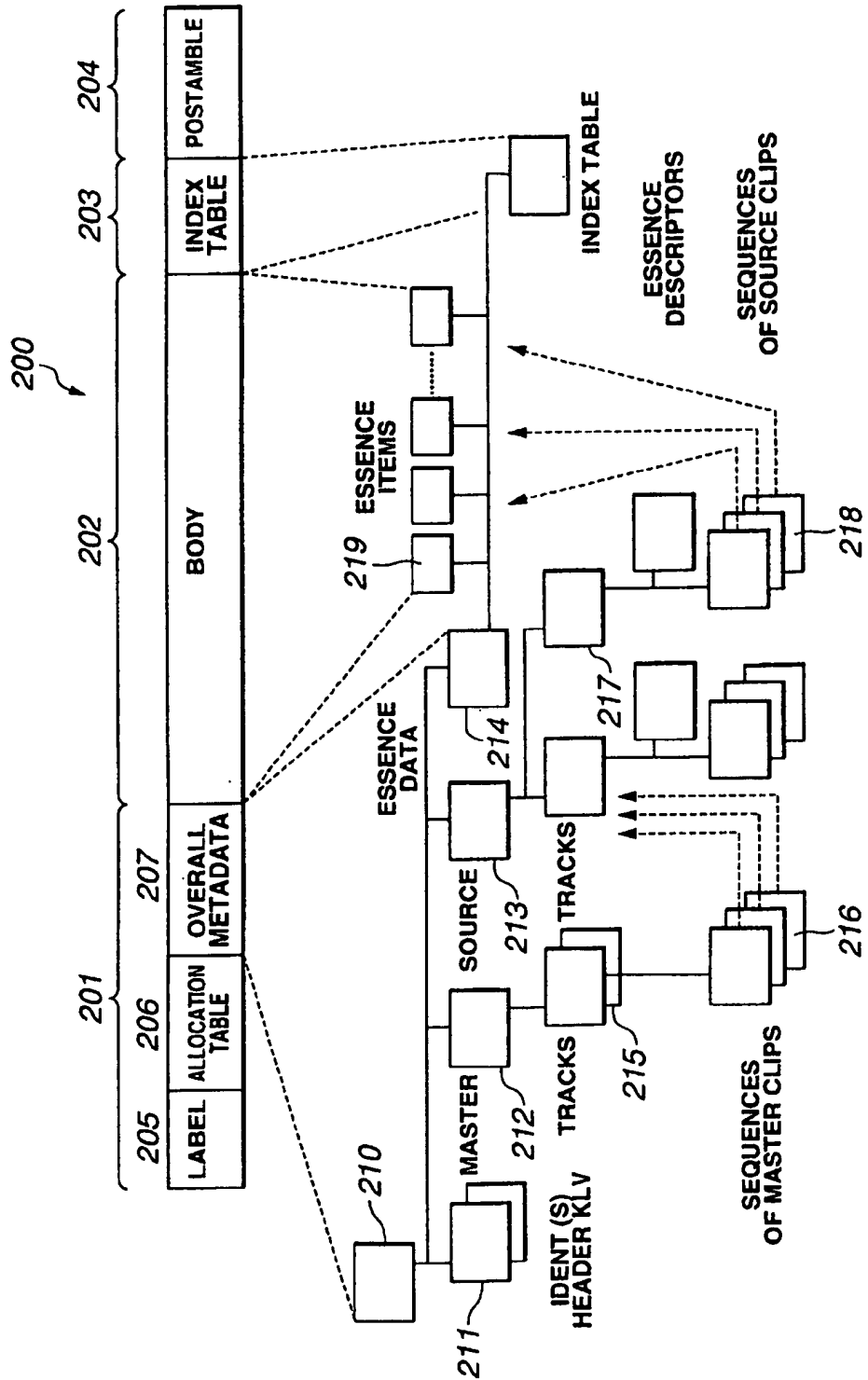


FIG.37

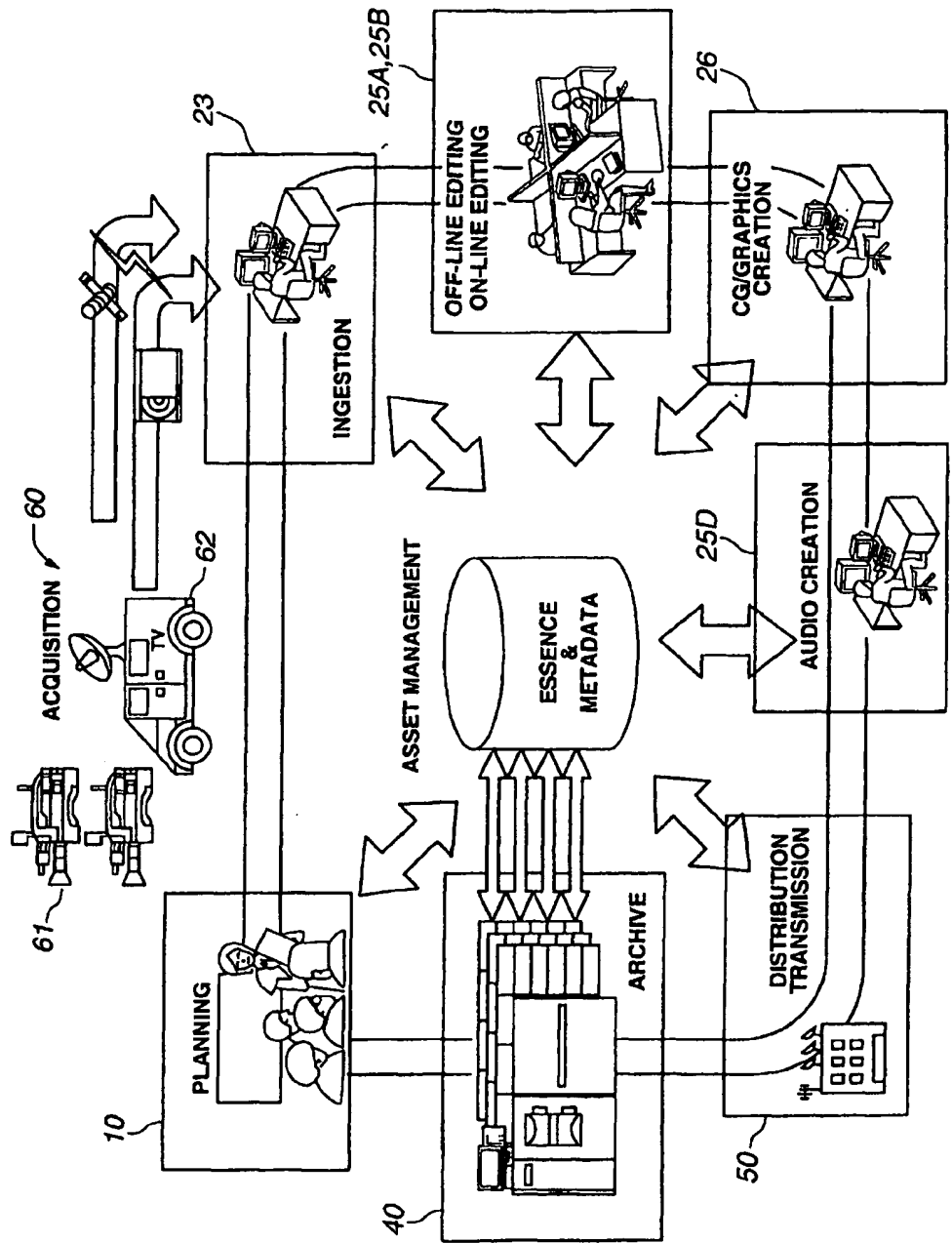


FIG.38

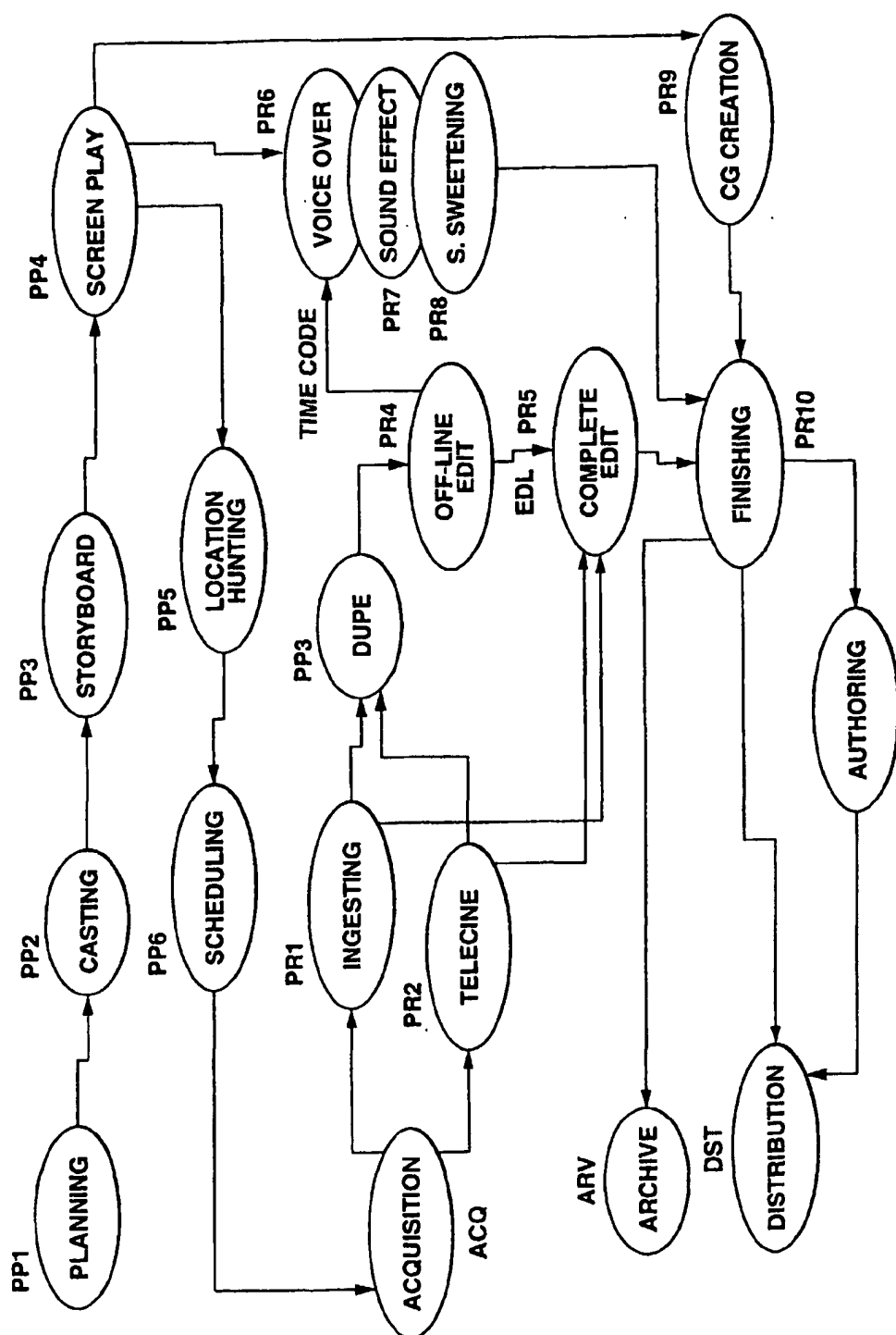


FIG.39

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP01/03100

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl.⁷ H04N 5/91, 5/92

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl.⁷ H04N 5/91-5/956Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2001
Kokai Jitsuyo Shinan Koho 1971-2001 Jitsuyo Shinan Toroku Koho 1996-2001

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claims No.
PX	JP, 2000-224257, A (Information Broadcasting Laboratories, Inc.), 11 August, 2000 (11.08.00), & WO, 00/45536, A1 & EP, 1073223, A1	1-32
PX	JP, 2001-502461, A (Avid Technologies, Inc.), 20 February, 2001 (20.02.01), & WO, 97/39411, A1 & EP, 895623, A1 & US, 5852435, A	1-32
PX	JP, 2001-75846, A (Canon Inc.), 23 March, 2001 (23.03.01) (Family: none)	1-32

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
21 June, 2001 (21.06.01)Date of mailing of the international search report
03 July, 2001 (03.07.01)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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